



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

## NOTICE OF ACCEPTANCE (NOA)

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Trane US, Inc.  
1515 Mercer Road  
Lexington, KY 40511

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION:** Trane Performance Climate Changer Air Handler – Size 120 Un-stacked Unit

**APPROVAL DOCUMENT:** Drawing No. AIRS0704, titled "Trane Performance Climate Changer Air Handler – Size 120 Un-stacked Unit", sheets 1 through 41 of 41, prepared by Wolters Engineering, Inc., dated September 10, 2013, signed and sealed by Scott Wolters, P.E., on September 10, 2015, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 12-0629.03 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



*Helmy A. Makar*  
02/18/2016

NOA No. 14-1120.12  
Expiration Date: 11/21/2018  
Approval Date: 02/18/2016  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0629.03**

**A. DRAWINGS:**

1. *Drawing No. AIRS0704, titled "Trane Performance Climate Changer Air Handler – Size 120 Un-stacked Unit", sheets 1 through 41 of 41, prepared by Wolters Engineering, Inc., dated September 10, 2013, signed and sealed by Scott Wolters, P.E., on 11/06/2013.*

**B. TESTS:**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Trane Performance Climate Changer Air Handler Size 120 Non-Stacked Unit, prepared by Hurricane Test Laboratory, Inc., Report No. 0254-0607-11, dated 04/09/2012, signed and sealed by Vinu J. Abraham, P.E.*

**C. CALCULATIONS:**

1. *Panel and fasteners analysis prepared by Wolters Engineering, Inc., dated July 23, 2012, signed and sealed by Scott Wolters, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *Tape properties by Butly.*
2. *Rigid Froth-Foam properties.*
3. *Industrial Polyurethane Adhesive/Sealant properties by Sikaflex.*

**F. STATEMENTS**

1. *FBC, 2010 conformance letter, dated July 23, 2012, signed and sealed by Scott Wolters, P.E.*

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS:**

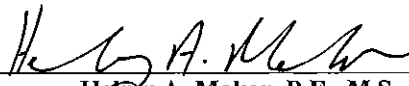
1. *Drawing No. AIRS0704, titled "Trane Performance Climate Changer Air Handler – Size 120 Un-stacked Unit", sheets 1 through 41 of 41, prepared by Wolters Engineering, Inc., dated September 10, 2013, signed and sealed by Scott Wolters, P.E., on 09/10/2015.*

**B. TESTS:**

1. *None.*

**C. CALCULATIONS:**

1. *None.*

  
Henry A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 14-1120.12  
Expiration Date: 11/21/2018  
Approval Date: 02/18/2016

Trane US, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**D. QUALITY ASSURANCE**

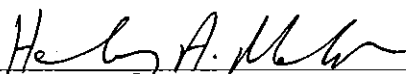
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

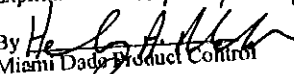
**F. STATEMENTS**

1. *FBC, 2014 conformance letter, dated September 17, 2015, signed and sealed by Scott Wolters, P.E.*


  
Henry A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 14-1120.12  
Expiration Date: 11/21/2018  
Approval Date: 02/18/2016

**GENERAL NOTES, TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT.**

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES. ALLOWABLE UNIT DESIGN PRESSURE IS +/- 55 PSF. AND THE ROOF DESIGN PRESSURE IS +/- 41.25 PSF. THIS PRODUCT APPROVAL IS APPLICABLE TO UNIT SIZES 57 THROUGH 120; THE SIZE 120 IS SHOWN IN THIS APPROVAL.
2. THIS PRODUCT HAS BEEN TESTED TO TAS 201-94, TAS 202-94 STRUCTURAL LOADS, AND TAS 203-94 (REF. TEST REPORT HTL-0254-0607-11), AND MEETS THE HIGH VELOCITY HURRICANE ZONE REQUIREMENTS OF THE 5TH EDITION (2014) FLORIDA BUILDING CODE. THIS PRODUCT IS NOT RATED FOR WATER INFILTRATION RESISTANCE AND HAS NOT BEEN TESTED FOR WIND DRIVEN RAIN. THE TESTED PRODUCT REMAINED OPERABLE AFTER IMPACT/CYCLIC TESTS WERE COMPLETED.
3. THIS PRODUCT APPROVAL IS GENERIC IN NATURE AND DOES NOT PROVIDE INFORMATION FOR SPECIFIC PROJECTS WHERE THE CONDITIONS VARY FROM THIS DOCUMENT. THE FLORIDA LICENSED ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT SHALL BE RESPONSIBLE FOR THE DESIGN, SIZING, AND STRUCTURAL ADEQUACY OF THE PRODUCT FRAMEWORK AS WELL AS CURBING AND ATTACHMENT TO THE ROOF, OR AS ACCEPTED BY THE CORRESPONDING BUILDING DEPARTMENTS.
4. THE STRUCTURAL ADEQUACY OF THE ROOF TO SUPPORT THIS EQUIPMENT IS NOT PART OF THE SCOPE OF THIS PRODUCT APPROVAL AND SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENTS. ANCHORAGE SHOWN HEREIN HAS BEEN ANALYZED FOR SLIDING AND OVERTURNING LOADS FOR THE CONFIGURATION INDICATED, AND SMALLER CONFIGURATIONS ASSUMING THE HEIGHT IS NO MORE THAN TWICE THE WIDTH. OTHER CONFIGURATIONS NOT INDICATED HERE SHALL BE ANALYZED BY THE DESIGN PROFESSIONAL OF RECORD TO PREVENT SLIDING AND OVERTURNING OF THE EQUIPMENT, AND SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENTS. SEE PAGE 31.
5. THIS PRODUCT APPROVAL IS FOR THE STRUCTURAL AND IMPACT/CYCLIC PERFORMANCE OF THE AIR HANDLER, INCLUDES PIPE CABINET, ENCLOSURES. THESE ENCLOSURES INCLUDE THE OPTIONAL EXTERNALLY MOUNTED COMPONENTS AS SHOWN IN THE DRAWINGS, FOR EXAMPLE HOODS ATTACHED TO AIR INTAKES AND EXHAUST OPENINGS, WINDOWS/VIEWPORTS, AND DOORS, AS WELL AS THE STRUCTURAL ELEMENTS / HOUSINGS FOR MINIHILIC GAUGES, JUNCTION BOXES, UV INTENSITY METERS, DISCONNECT SWITCHES, RACEWAYS, AND GFCI INTERFACES. THIS PRODUCT APPROVAL DOES NOT INCLUDE INTERNALLY MOUNTED COMPONENTS OR ANY ELECTRICAL DEVICES OR CIRCUITRY.
6. THE PRODUCT IS CONSTRUCTED IN BUILD GROUPS. BUILD GROUPS MAY BE ASSEMBLED INTO SHIPPING SECTIONS; ASSEMBLY SHALL BE WITH SPLICE PLATES AS SHOWN HEREIN. BUILD GROUPS OR SHIPPING SECTIONS MAY BE FURTHER ASSEMBLED INTO INSTALLED UNIT; ASSEMBLY SHALL BE WITH THREADED ROD BETWEEN LIFTING LUGS AS SHOWN HEREIN.
7. PIPE CABINET (PC) SECTIONS MAY BE ADDED INTO THE ASSEMBLY. IF USED, ASSEMBLY WITH OTHER BUILD UNITS OR SHIPPING SECTIONS SHALL BE WITH THREADED ROD BETWEEN LIFTING LUGS AS SHOWN HEREIN.
8. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM.
9. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC TO PREVENT GALVANIC REACTIONS.
10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ALL FINISHES.
11. ACRONYMS USED IN THIS APPROVAL ARE AS FOLLOWS: EOU IS END OF UNIT, DOAF IS DIRECTION OF AIR FLOW, SS IS SHIPPING SPLIT, PC IS PIPE CABINET.BG IS BUILD GROUP.
12. ALL UNITS OF MEASURE ARE IN INCHES UNLESS OTHERWISE SPECIFIED
13. 2" MAX. DIAMETER CIRCULAR HOLES MAY BE FIELD DRILLED THROUGH THE EXTERIOR WALLS FOR INSTALLATION OF CONDUIT OR COMPONENTS. HOLES SHALL BE PROTECTED FROM WIND BY CONNECTED EQUIPMENT OR CONDUIT, BY OTHERS, AND PROPER SEALING TO PREVENT AIR EXCHANGE SHALL BE BY OTHERS. HOLES SHALL BE 3" MAX. FROM ANY PANEL EDGE. MAX. 4 FIELD-DRILLED HOLES PER PANEL, 12" ON CENTER MINIMUM.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-1120-12  
Expiration Date 11/21/2018  
By   
Miami Dade Product Control

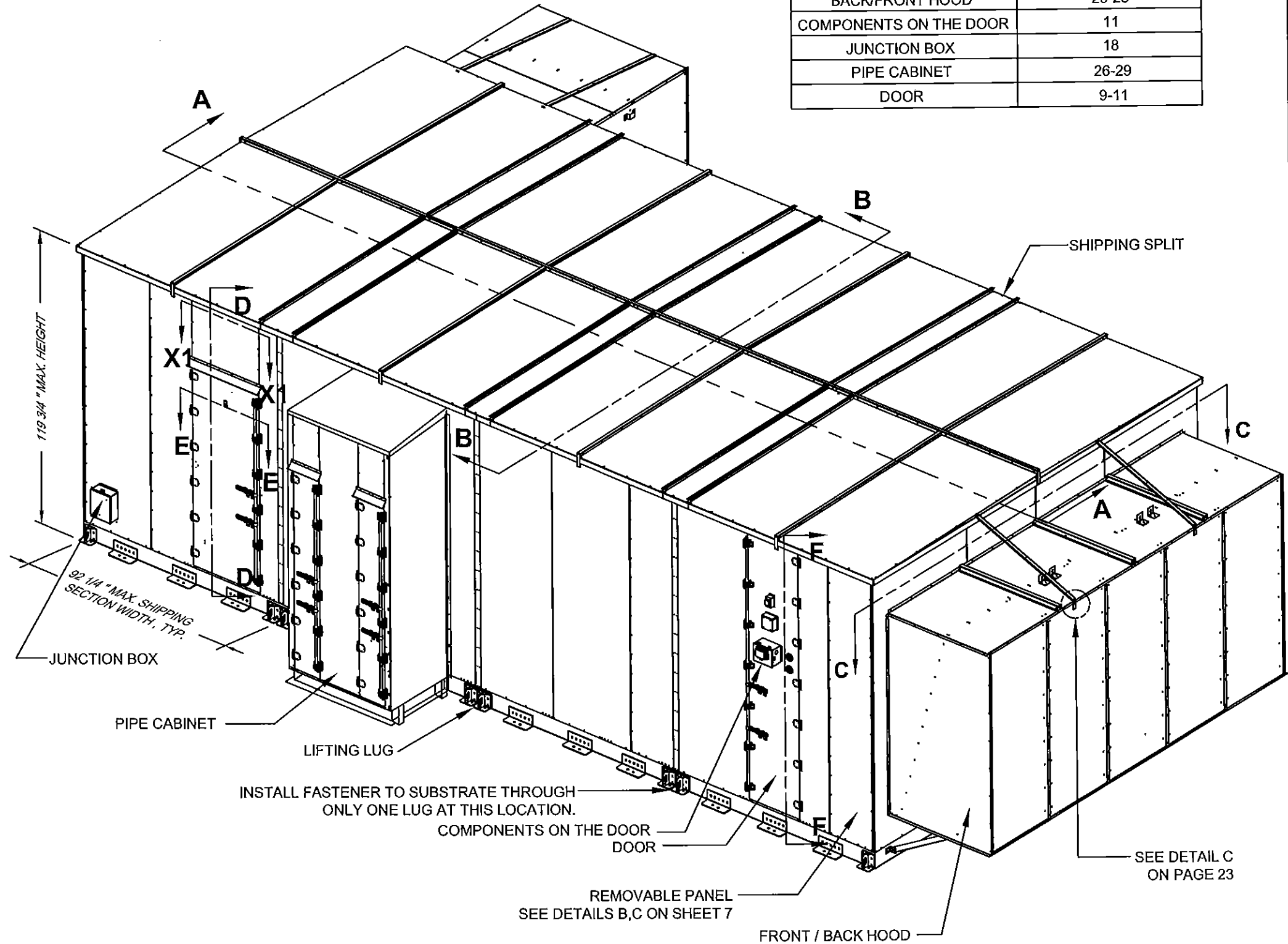
  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33411  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>		REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>1 OF 41</b>	SECTION			MOCK UP DWG SHEET REF: ---	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

GENERIC FOAM PANEL CROSS SECTION DETAILS

COMPONENTS	DETAILS ON PAGE
BACK/FRONT HOOD	23-25
COMPONENTS ON THE DOOR	11
JUNCTION BOX	18
PIPE CABINET	26-29
DOOR	9-11

CROSS SECTION	REFERENCE PAGE
A-A	6
B-B	5
C-C	7
D-D	8
E-E	9
X1-X1	8
F-F	9



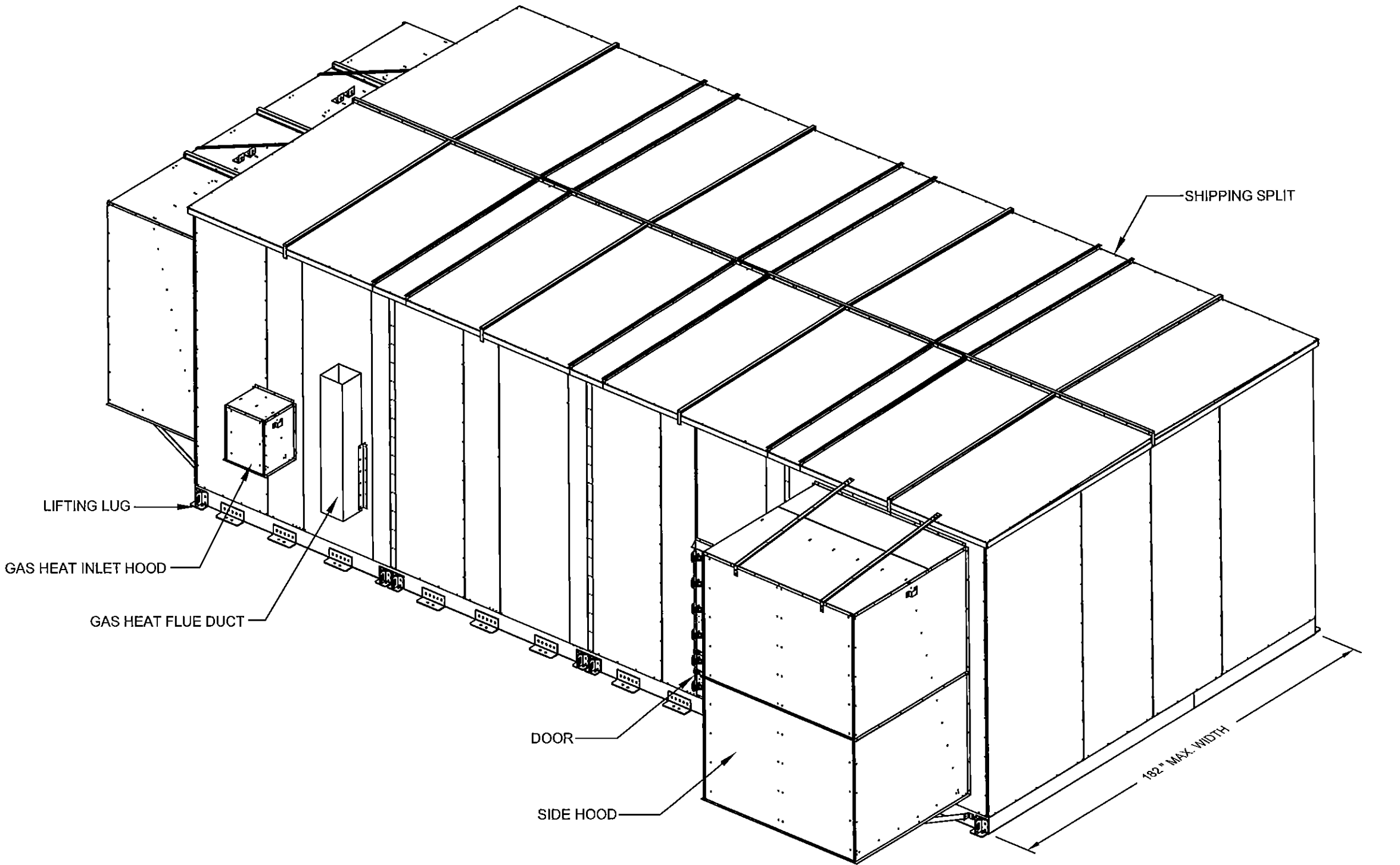
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By *[Signature]*  
Miami Dade Product Control

*[Signature]*  
SCOTT WOLTERS  
FL PE# 62354  
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THE LIFTING LUG AND ANCHOR SIDE OF THE  
UNIT IS REFERED TO AS THE UNIT SIDES.

DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	2 OF 41	SECTION			MOCK UPDWG SHEET REF:	2-5 OF 50	SCALE:	NTS	DATE	10-SEP-2013

COMPONENTS	DETAILS ON PAGE
SIDE HOOD	23-25
GAS HEAT INLET HOOD	23-25
GAS HEAT FLUE DUCT	30



NOTE:  
1. THE LIFTING LUGS ARE ATTACHED TO THE SIDES OF THE UNIT.

BACK/FRONT VIEW

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*[Signature]*  
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PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING #		DESC.	TRANE US Inc.	REV. HISTORY ---	BY: K.YUVARAJA	REV. A
SHEET	SECTION					
3 OF 41		TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT		MOCK UPDWG SHEET REF: 7 OF 50	SCALE: NTS	DATE 10-SEP-2013

BILL OF MATERIALS					
1	10-16 x .75" SELF-DRILLING SCREW	GRADE 5 STEEL	59	WASHER .563" ID x 1.375" OD	GALV. STEEL
2	.125" THICK x 2" WIDE TAPE	BUTYL	60	SCREW 1/2"-13 x 1.2 HEX CAP HEAD	GALV. STEEL
3	.188 (.06" COMPRESSED) x .625" GASKET	PVC/NBR	61	LIFTING LUG (1ST LEVEL)	GALV. STEEL
4	10-16 x 1.75" SELF-DRILLING SCREW	GRADE 5 STEEL	62	0.06" THICK LUG GASKET	PVC/NBR
5	DECORATIVE COVER	GALV. STEEL	63	SPLICE PLATE	GALV. STEEL
6			64	0.06" THICK PLATE GASKET	PVC/NBR
7	.120" THICK x 1" WIDE TAPE	BUTYL	65	BOLT 5/16"-18 x 6" HEX MACHINE	GALV. STEEL
8	.375" THICK x .750" WIDE GASKET	PORON	66	WASHER .375" ID x .875 OD	GALV. STEEL
9	HAT CHANNEL	GALV. STEEL	67	NUT 5/16"-18 HEX FLANGE (HW)	GALV. STEEL
10	DOOR HINGE	GALV. STEEL	68	WALL BOTTOM L ANGLE	GALV. STEEL
11	DOOR CAM BRACKET	GALV. STEEL	69	ROOF KEEL	GALV. STEEL
12	STRIKER PLATE	GALV. STEEL	70	STRUCT. ADHESIVE SIKAFLEX 3131S	POLYMER
13	.06" THICK x .5" WIDE TAPE	BUTYL	71	ROOF BACKING PLATE	GALV. STEEL
14	WINDOW 3/16" PLEXIGLASS 8 3/4" x 8 3/4"	PLEXIGLASS	72	.188" (.06" COMPRESSED) x 1.25" GASKET	PVC/NBR
15	WINDOW FRAME	GALV. STEEL	73	DOOR FOOTER	GALV. STEEL
16	STRUCT. ADHESIVE SIKAFLEX 552	POLYMER	74	SUPPORT MULLION ASSEMBLY	GALV. STEEL
17	1/4"-14 x 3/4" SELF-DRILLING SCREW	GRADE 5 STEEL	75	BASE SUPPORT CHANNEL / PC BASE L ANGLE	GALV. STEEL
18	UV DISCONNECT SWITCH	VARIES	76	DRIP LIP	GALV. STEEL
19	INTENSITY MEASUREMENT METER	VARIES	77	PC SHIPPING BRACKET	GALV. STEEL
20	GFCI JUNCTION BOX	GALV. STEEL	78	3/8"-16 x 1 1/4" HEX CAP SCREW	GRADE 5 STEEL
21	CONDUIT 1" RUNNING THREAD	GALV. STEEL	79	3/8"-16 HEX NUT	GRADE 5 STEEL
22	1" CONDUIT NUT	GALV. STEEL	80	PC BASE RAIL	GALV. STEEL
23	1" CONDUIT BUSHING	GALV. STEEL	81	CHAIN GUIDE	GALV. STEEL
24	CONDUIT 1/2" RUNNING THREAD	GALV. STEEL	82	3/8"-16 x 3" BOLT	GRADE 5 STEEL
25	1/2" CONDUIT NUT	GALV. STEEL	83		
26	1/2" CONDUIT BUSHING	GALV. STEEL	84	UNIT WELD BRACKET	GALV. STEEL
27	MINIHELIC GAUGE	VARIES	85		
28	4-40 x 1 1/4" PHILLIPS PAN HEAD SCREW	GRADE 5 STEEL	86	PC ROOF ANGLE	GALV. STEEL
29	ELBOW	GALV. STEEL	87		
30	.06" THICK x 0.38" WIDE TAPE	BUTYL	88	1/2"-13 x 1.2" HEX CAP BOLT	GRADE 5
31			89		
32	GANGED DOOR HANDLE ASSEMBLY	GALV. STEEL	90		
33	DOOR VIEWER	VARIES	91	SHIPPING SPLIT SUPPORT ANGLE PTAF	GALV. STEEL
34			92	SHIPPING SPLIT VERTICAL CHANNEL	GALV. STEEL
35	PADLOCK BRACKET	GALV. STEEL	93		
36	1/4-20 x 1/4" SET SCREW	GRADE 5 STEEL	94		
37	10-16 x 1/2" SELF-DRILLING SCREW	GRADE 5 STEEL	95		
38	.5" x 2.5" x 2.5" SPECIALTY GASKET	PVB/NBR	96		
39	5/16"-18 x 7/8" SHEET METAL SCREW	GRADE 5 STEEL	97		
40	SADDLE BRACKET	GALV. STEEL	98		
41			99		
42			100	.38" THICK x 2" WIDE ROLL	BUTYL
43			101	SEAM CAP	GALV. STEEL
44	FIRST LEVEL BASE RAIL	GALV. STEEL	102	ROOF STRIP	GALV. STEEL
45			103	OVERHANG	GALV. STEEL
46	FOAM COVER	GALV. STEEL	104	A-FRAME HORIZONTAL	GALV. STEEL
47	FOAM COVER CORNER BRACKET	GALV. STEEL	105	A-FRAME VERTICAL	GALV. STEEL
48			106	HOOD LIFTING LUG ANGLE	GALV. STEEL
49	JUNCTION BOX	GALV. STEEL	107	HOOD LIFTING LUG HAT	GALV. STEEL
50	SEALANT, SIKAFLEX 221 CAULK	POLYMER	108	HOOD SUPPORT	GALV. STEEL
51			109	HOOD SUPPORT BRACKET	GALV. STEEL
52	DISCONNECT SWITCH ASSEMBLY	VARIES	110	HOOD L-ANGLE	GALV. STEEL
53	DISCONNECT SWITCH BLOCKOFF	GALV. STEEL	111	HOOD SUPPORT TOP CHANNEL	GALV. STEEL
54	.0325" THICK x 1.88" x 15.88" GASKET	POLYOLEFIN	112	HOOD BACKING PLATE	GALV. STEEL
55	.0325" THICK x 3" x 17" GASKET	POLYOLEFIN	113	WALL ANCHOR	GALV. STEEL
56	DISCONNECT HANDLE KIT (NON STRUCTURAL)	VARIES	114	DOUBLE SIDED TAPE 1/16 (COMPR.) x 3/4 x 216	PVC/NBR
57	THREADED ROD 1/2"-13 x 10.5"	GALV. STEEL	115	PC ROOF KEEL	ALUMINUM 6063-T6
58	NUT 1/2"-13 HEX MACHINE	GALV. STEEL	116	KEEPER/DOOR CAM	ZAMAK # 3
			117		
			118		
			119	EOU WALL SUPPORT CHANNEL	GALV. STEEL
			120	FLUE DUCT L ANGLE	GALV. STEEL
			121	SHIP SPLIT SPLICE PLATE	GALV. STEEL
			122	HOOD L-ANGLE FOR HOOD BOTTOM PANEL	GALV. STEEL
			123	NEW DOOR HEADER	GALV. STEEL
			124		
			125		
			126	BOTTOM CAP	STAINLESS STEEL
			127	FLUE DUCT	STAINLESS STEEL
			128	DOAF BEAM	GALV. STEEL
			129	WALL PANEL BACKING PLATE (P.C)	GALV. STEEL
			130	0.125 X 5/16" RIVET	GALV. STEEL
			131	BACKING PLATE (UNIT ROOF FOR P.C)	GALV. STEEL
			132		
			133	DOOR HEADER	GALV. STEEL
			134	EYEBROW	GALV. STEEL
			135	UV VIEW PORT	GALV. STEEL
			136	SUPPORT GUSSET BRACKET	GALV. STEEL
			137	SUPPORT GUSSET	GALV. STEEL
			138	CORNER SEAM CAP	GALV. STEEL
			139	HAT CHANNAL BRACKET	GALV. STEEL
			140	DOOR TUBE	STEEL
			141	CORNER BLOCK FIRST LEVEL	GALV. STEEL
			142	DOAF BASE SUPPORT CHANNEL	GALV. STEEL
			143	PC LIFTING LUG	GALV. STEEL

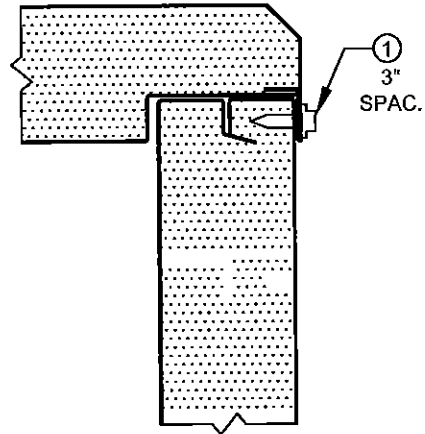
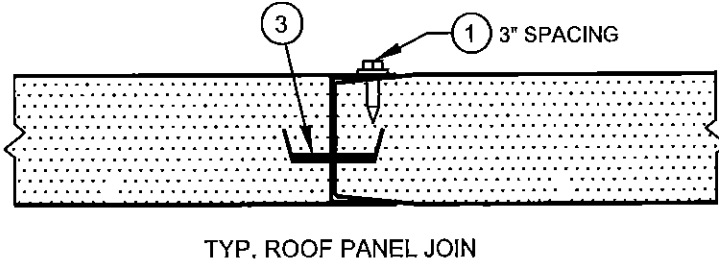
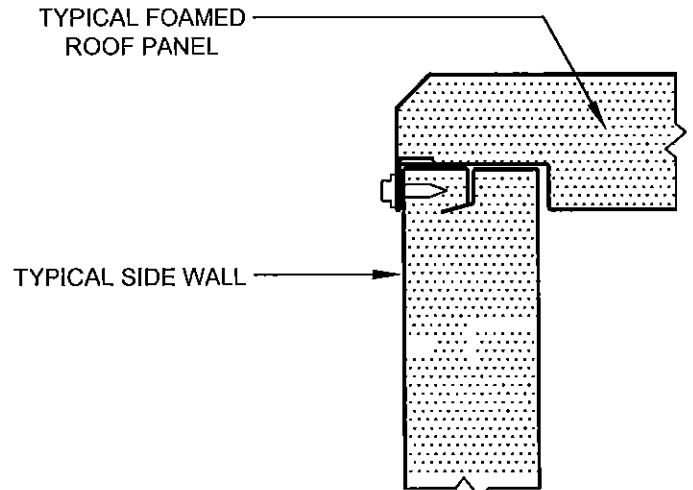
NOTE: PVC/NBR IN BOM TO THE LEFT INDICATES POLYVINYL CHLORIDE / ACRYLONITRILE BUTADIENE RUBBER, SINGLE-SIDED EXCEPT ITEM 114.

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By *Heidi A. Miller*  
Miami Dade Product Control

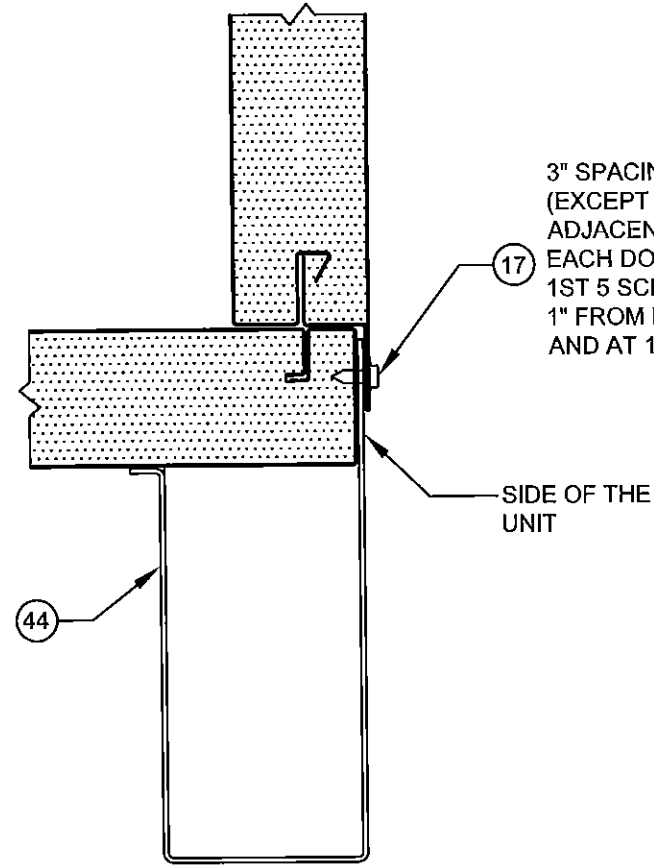
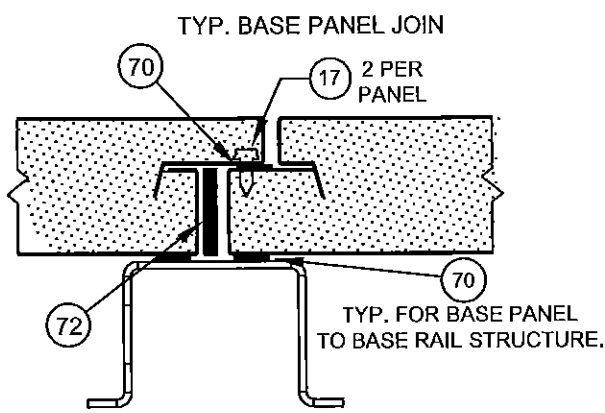
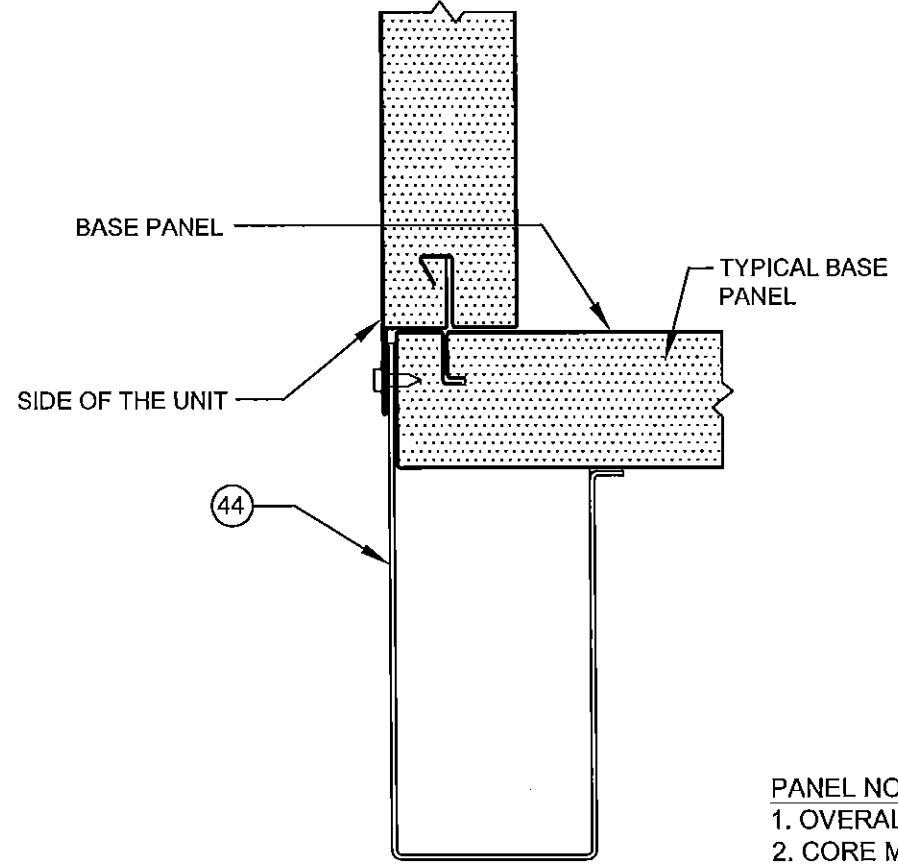
*Scott Walters*  
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SHEET  <b>4 OF 41</b>	SECTION			MOCK UPDWG SHEET REF:  <b>5 OF 50</b>	SCALE:  <b>NTS</b>	DATE  <b>10-SEP-2013</b>

# **TYPICAL UNSTACKED UNIT FOAMED PANEL JOINTS AND CROSS SECTIONS** **(SUPPORT STRUCTURE IS NOT SHOWN FOR CLARITY.)** (REFER TO PAGES 12-21 FOR SUPPORT DETAILS)



NOTES:  
 1. DOOR CROSS SECTION SHOWN ON PAGE 8 AND 9.



PANEL NOTES:  
 1. OVERALL PANEL THICKNESS IS 2".  
 2. CORE MATERIAL IS RIGID FROTH-FOAM INSULATION.  
 3. INNER AND OUTER CASING PANEL SKINS ARE 0.028" GALVANIZED STEEL.  
 4. GASKET ITEM 3 IS PLACED AS A THERMAL BREAK BETWEEN ALL INNER AND OUTER CASING PANELS.

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 By *[Signature]*  
 Miami Dade Product Control

*[Signature]*  
 SCOTT WOLTERS  
 FL PE# 62354  
 WOLTERS ENGINEERING, INC.  
 (COA# 27194)  
 15211 97TH ROAD N  
 WEST PALM BEACH, FL 33412  
 PH/FX: (561) 225-1982  
 SEP 10 2015

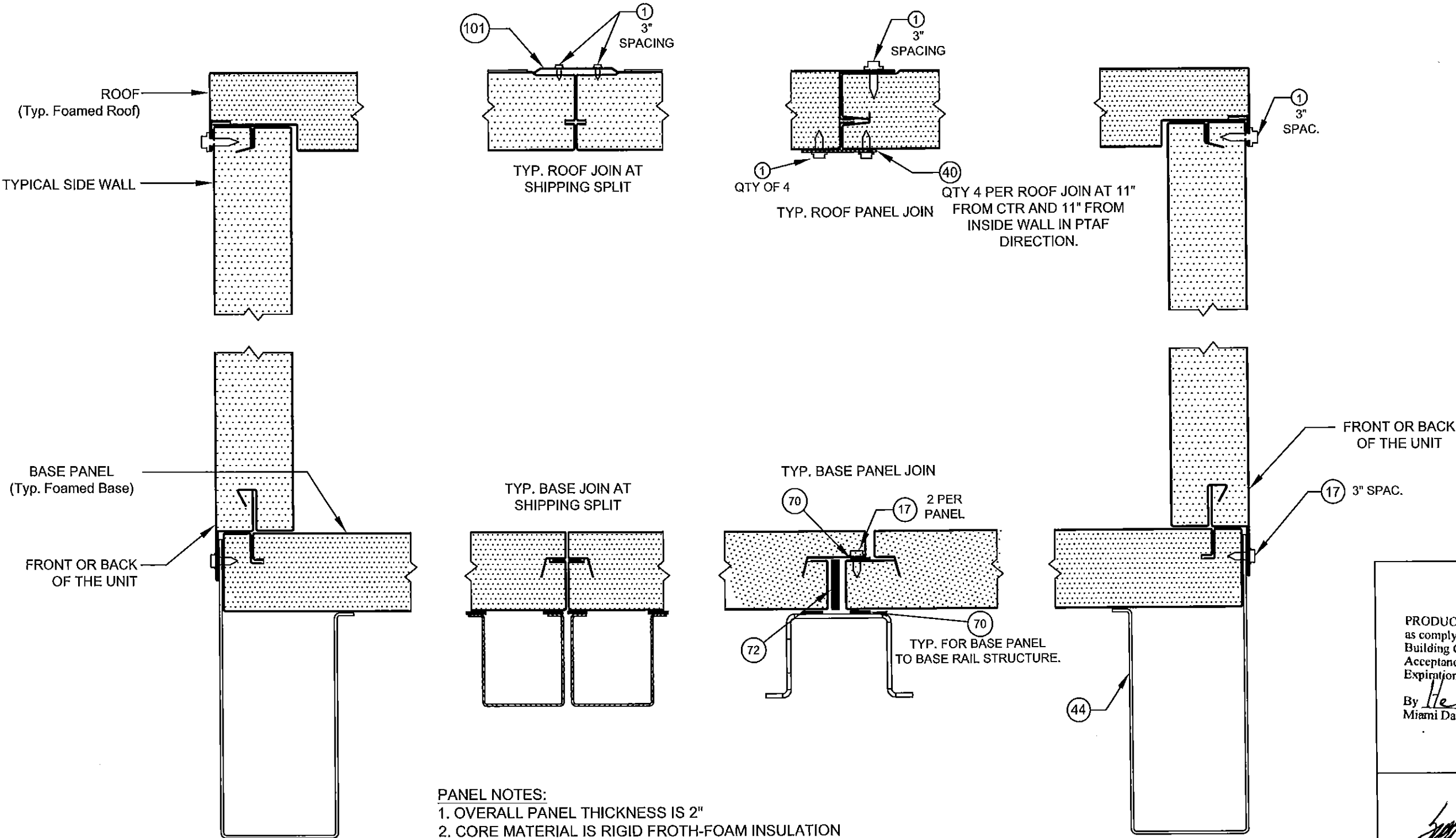
## **CROSS SECTION B-B**

DRAWING # <b>AIRS0704</b>		DESC.  <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>5 OF 41</b>	SECTION			MOCK UPDWG SHEET REF: <b>16, 19, 25 OF 50 29 OF 63</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>



# **TYPICAL UNSTACKED UNIT FOAMED PANEL JOINTS AND CROSS SECTIONS** **(SUPPORT STRUCTURE IS NOT SHOWN FOR CLARITY)**

(REFER TO PAGES 12-21 FOR SUPPORT DETAILS)



- PANEL NOTES:**
1. OVERALL PANEL THICKNESS IS 2"
  2. CORE MATERIAL IS RIGID FROTH-FOAM INSULATION
  3. INNER AND OUTER CASING PANEL SKINS ARE 0.028" GALVANIZED STEEL
  4. GASKET ITEM 3 IS PLACED AS A THERMAL BREAK BETWEEN ALL INNER AND OUTER CASING PANELS

## **CROSS SECTION A-A**

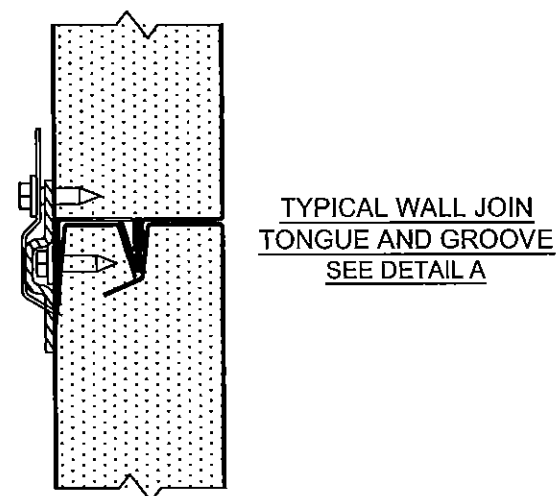
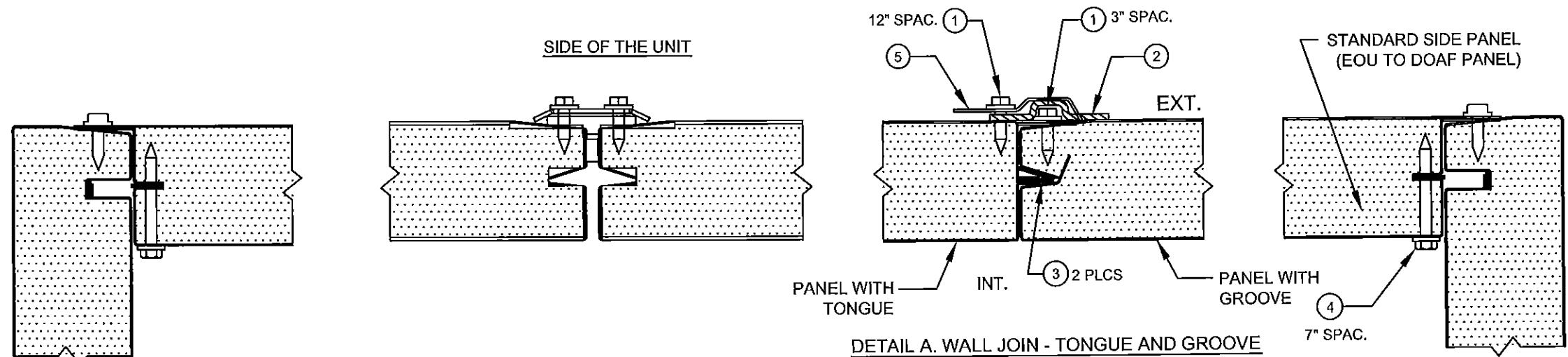
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-1120.12  
Expiration Date 11/21/2018  
By *Healy A. Kline*  
Miami Dade Product Control

*Scott Wolters*  
**SCOTT WOLTERS**  
FL PE# 62354  
**WOLTERS ENGINEERING, INC.**  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING #	<b>AIRS0704</b>	DESC.	<b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY	---	BY:	<b>K.YUVARAJA</b>	REV.	<b>A</b>
SHEET	<b>6 OF 41</b>	SECTION			MOCK UP DWG SHEET REF:	<b>16, 17, 19, 24 OF 50 29 OF 63</b>	SCALE:	<b>NTS</b>	DATE	<b>10-SEP-2013</b>

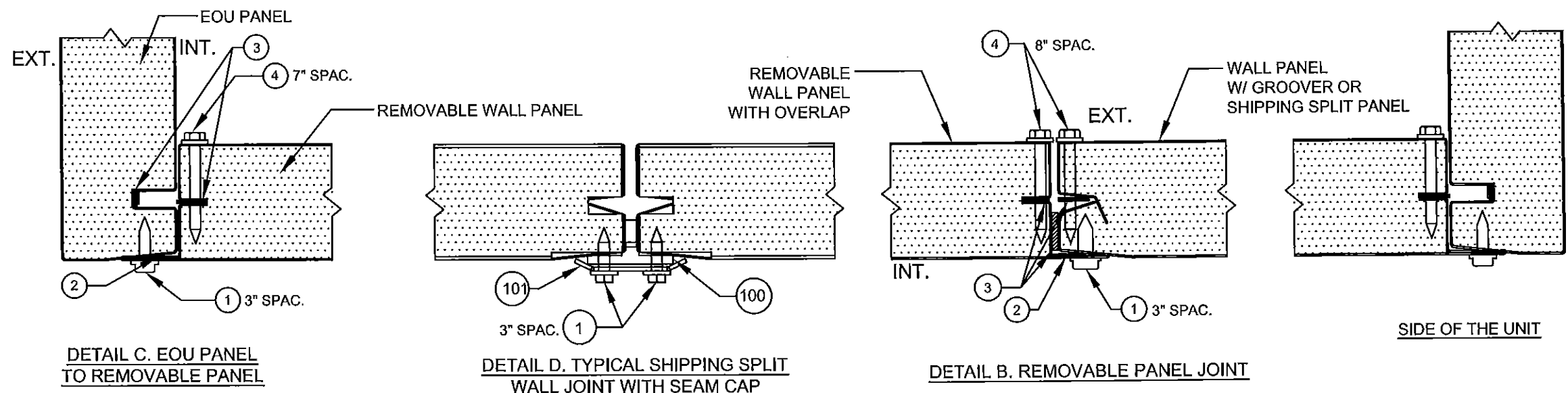
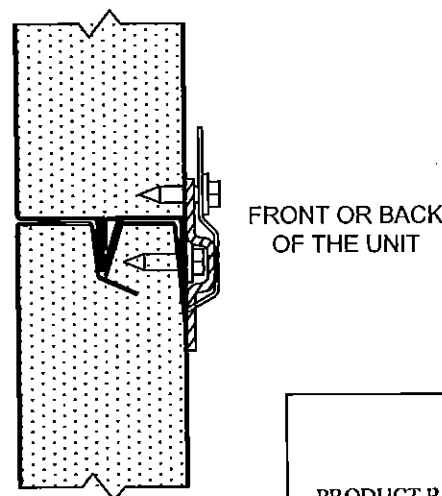
TYPICAL UNIT CROSS SECTIONS OF FOAMED PANEL AND UNIT SPLIT JOINTS  
(SUPPORT STRUCTURE IS NOT SHOWN FOR CLARITY)

(REFER TO PAGES 12-21 FOR SUPPORT DETAILS)



NOTES:  
1. DOOR CROSS SECTION SHOWN ON PAGE 8 AND 9.

CROSS SECTION C-C



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Miami Dade Product Control

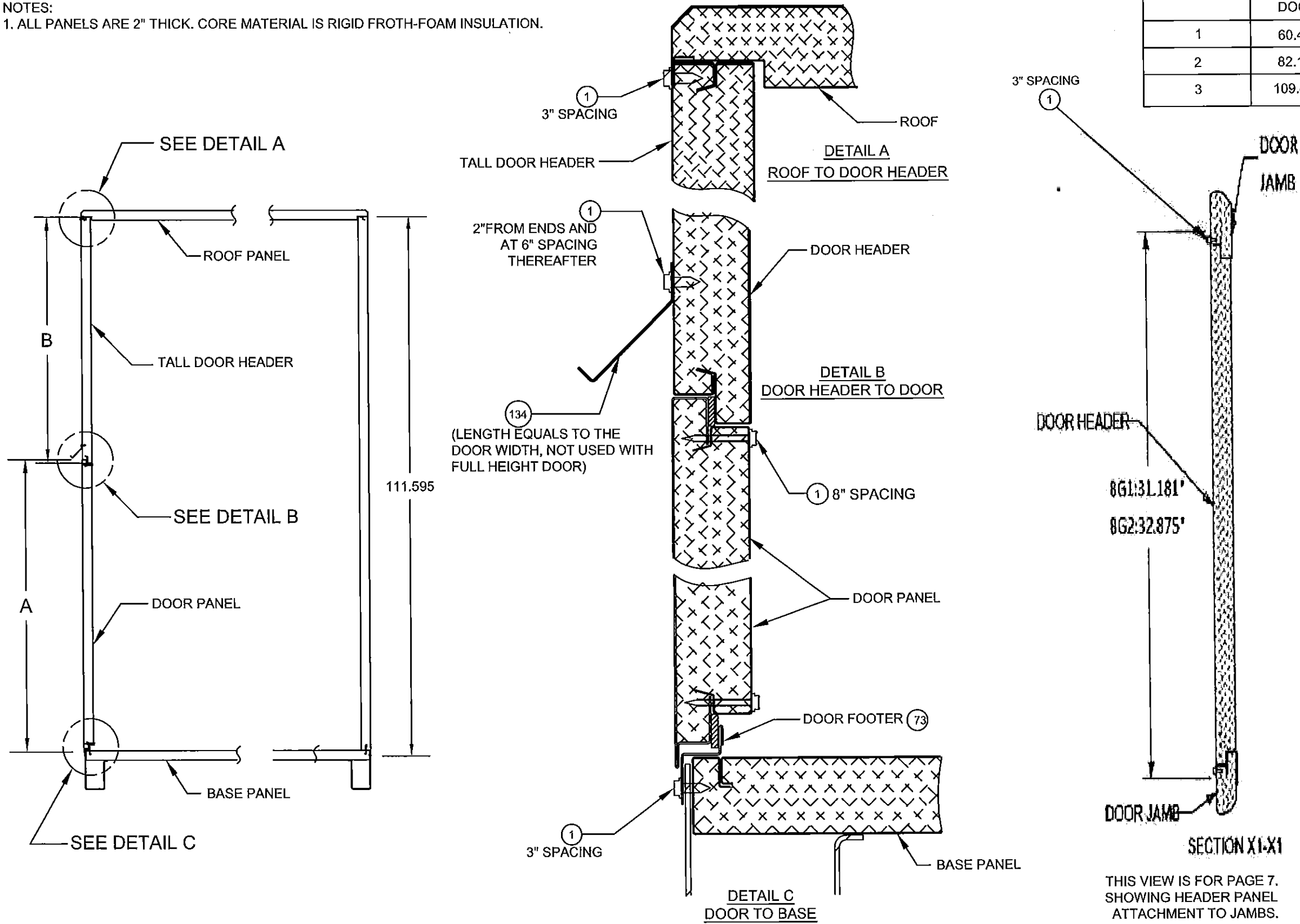
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	7 OF 41	SECTION			MOCK UPDWG SHEET REF:	9, 15, 38 OF 50	SCALE:	NTS	DATE	10-SEP-2013

ROOF TO DOOR & DOOR TO BASE RAIL CROSS SECTION D-D (SEE PAGE 2)

(SHORT DOOR WITH TALL HEADER)

NOTES:  
1. ALL PANELS ARE 2" THICK. CORE MATERIAL IS RIGID FROTH-FOAM INSULATION.



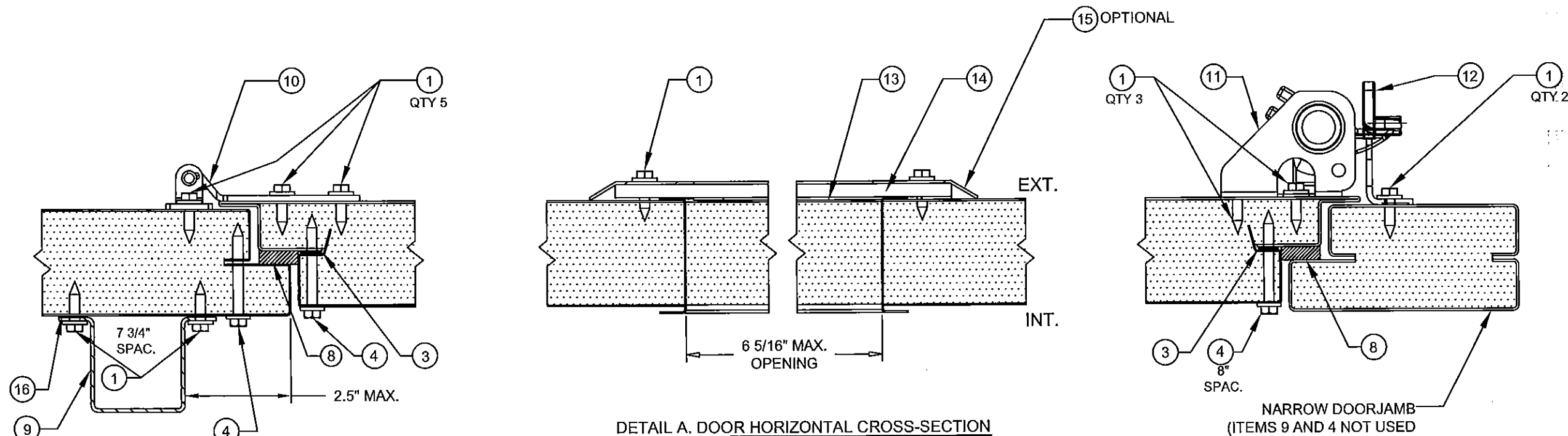
PRODUCT REVISED  
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Building Code  
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Expiration Date 11/21/2018  
By *Healy A. Miller*  
Miami Dade Product Control

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WOLTERS ENGINEERING, INC.  
(COA# 27194)  
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SEP 10 2013

THIS VIEW IS FOR PAGE 7.  
SHOWING HEADER PANEL  
ATTACHMENT TO JAMBS.

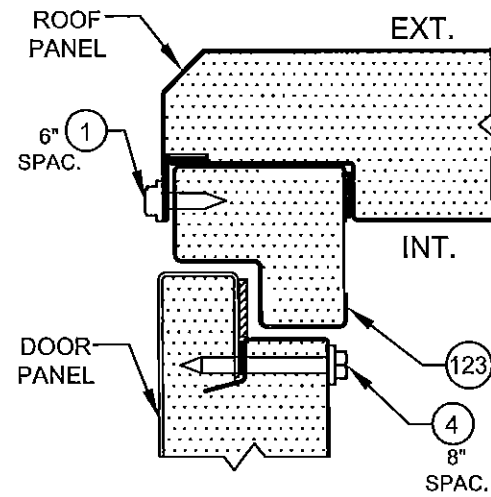
DOOR CROSS SECTION E-E

SEE PANEL NOTES SHEET 5

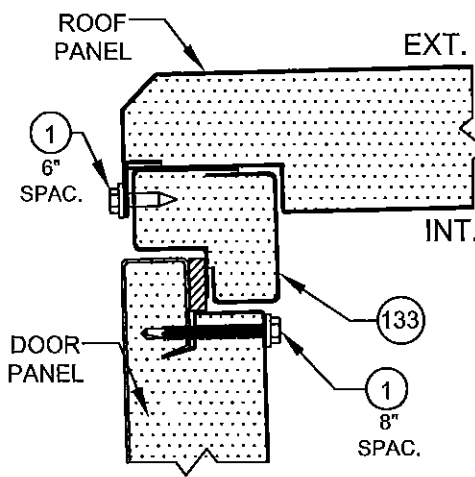


NOTE:  
1. THIS DETAILS SHALL BE APPLICABLE TO ALL DOORS IN UNIT AND PIPE CABINET.

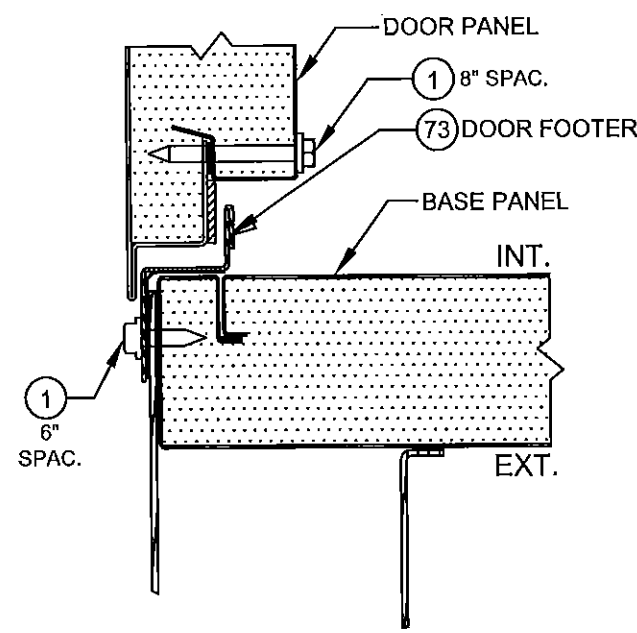
DOOR CROSS SECTION F-F  
STANDARD HEADER



DETAIL B1. DOOR TO ROOF (TOP)  
NEW-SYLE HEADER  
(Tested with size 50)



DETAIL B2. DOOR TO ROOF (TOP)  
OLD-STYLE HEADER



DETAIL C. DOOR TO BASE (BOTTOM)

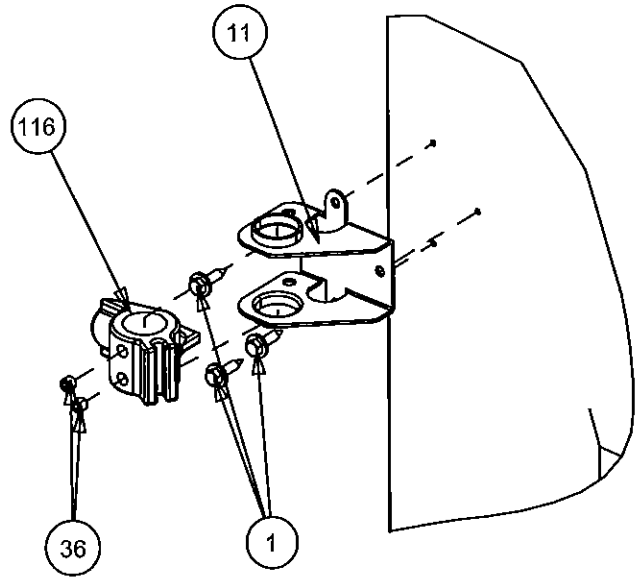
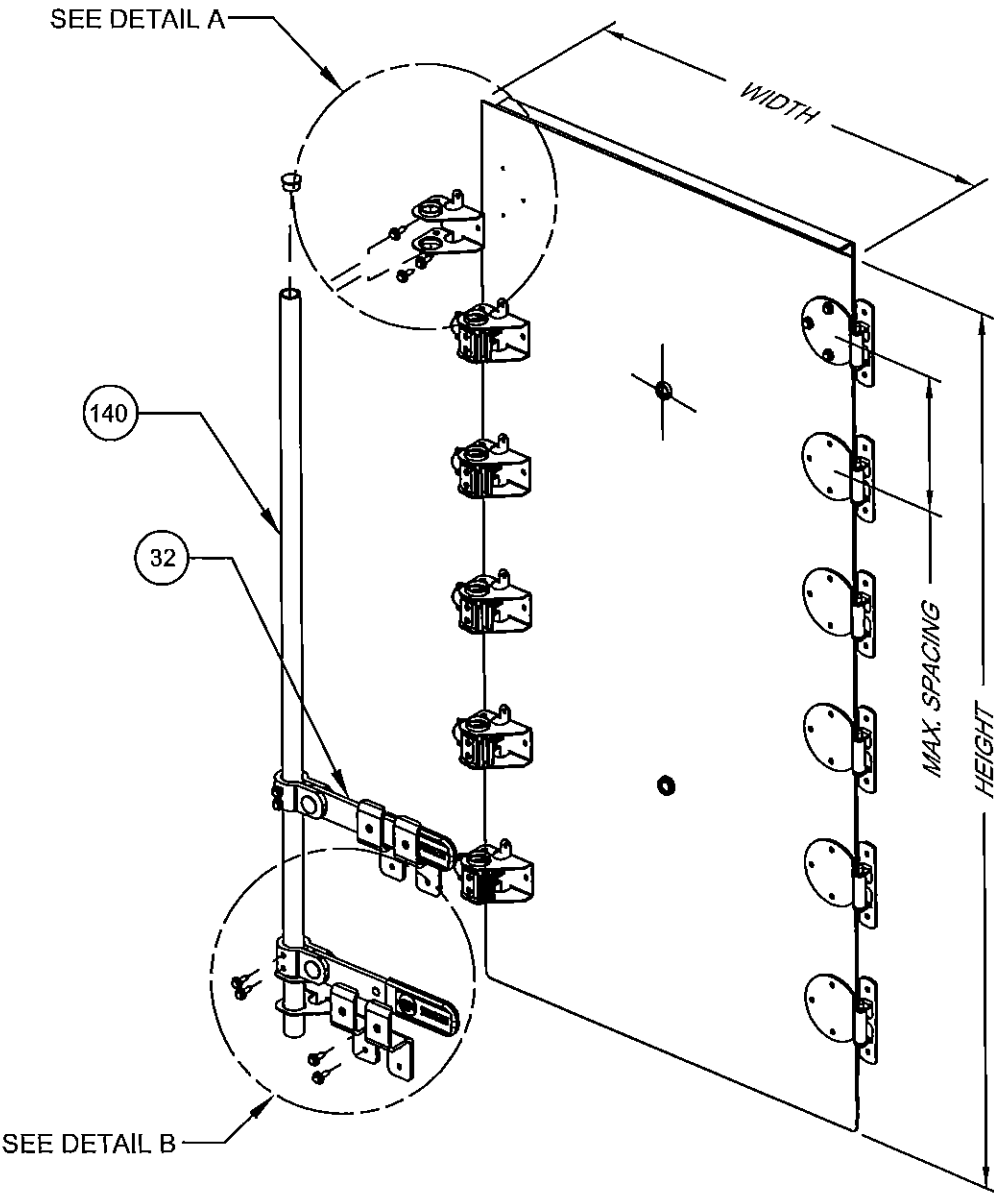
NOTE:  
1. ONLY SHOWING TOP AND BOTTOM OF THE CROSS SECTION.

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Miami Dade Product Control

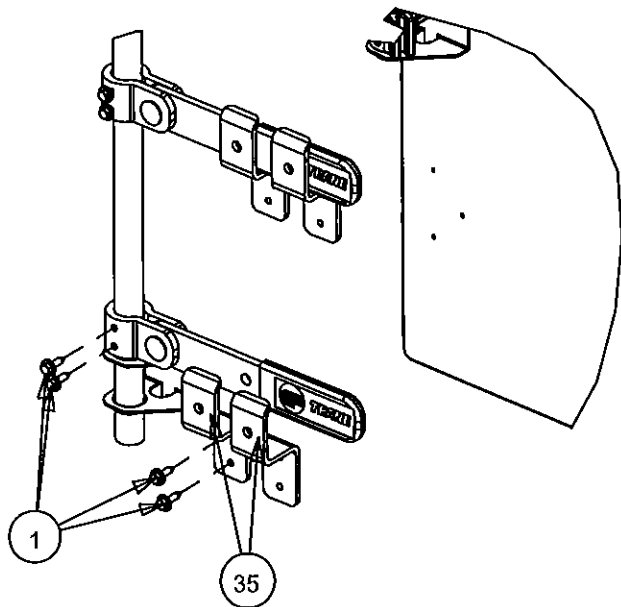
*Scott Wolters*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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SEP 10 2010

DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	9 OF 41	SECTION			MOCK UP DWG SHEET REF:	10, 11, 12 OF 50	SCALE:	NTS	DATE	10-SEP-2013

DOOR HARDWARE LAYOUT



DETAIL A



DETAIL B

SECTION DESCRIPTION	MAXIMUM DOOR SIZE WIDTH x HEIGHT	HINGE MAX. SPACING	HINGE QTY	PADLOCK BRACKETS PER HANDLE	HANDLE QTY
STANDARD UNIT	32.750" x 60.425"	10.160	6	2	2
STANDARD UNIT	30.875" x 82.175"	14.510	6	2	2
STANDARD UNIT	23.353" x 109.4256"	16.634	7	2	2
PIPE CABINET	30.913" x 60.425"	10.250	6	2	2

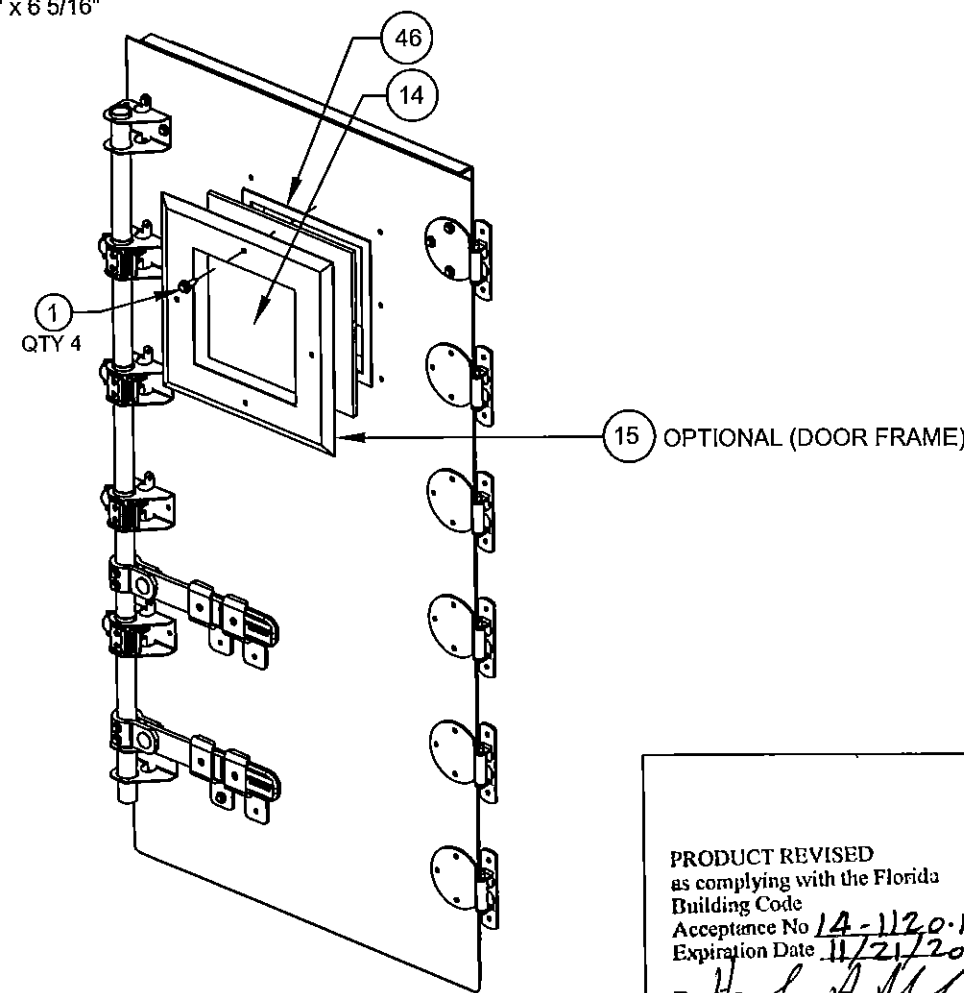
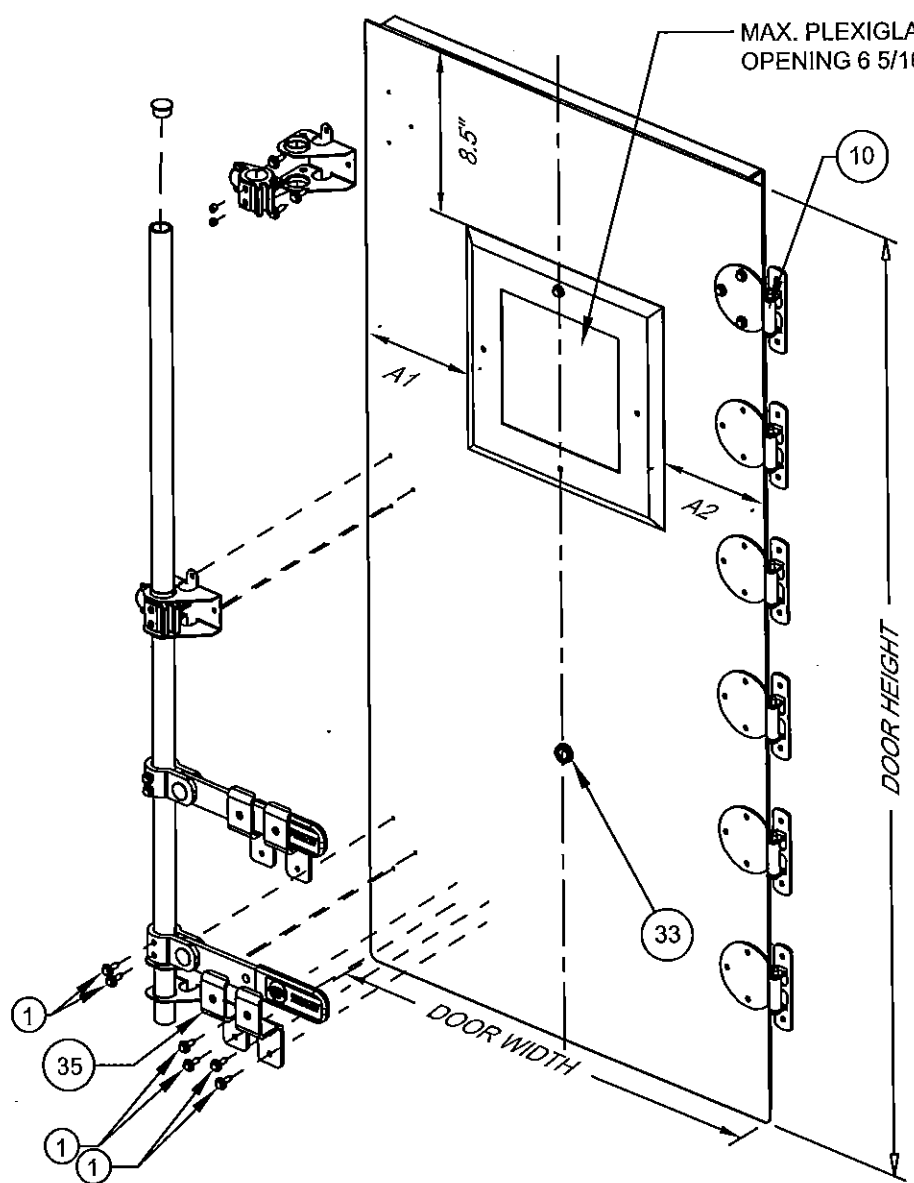
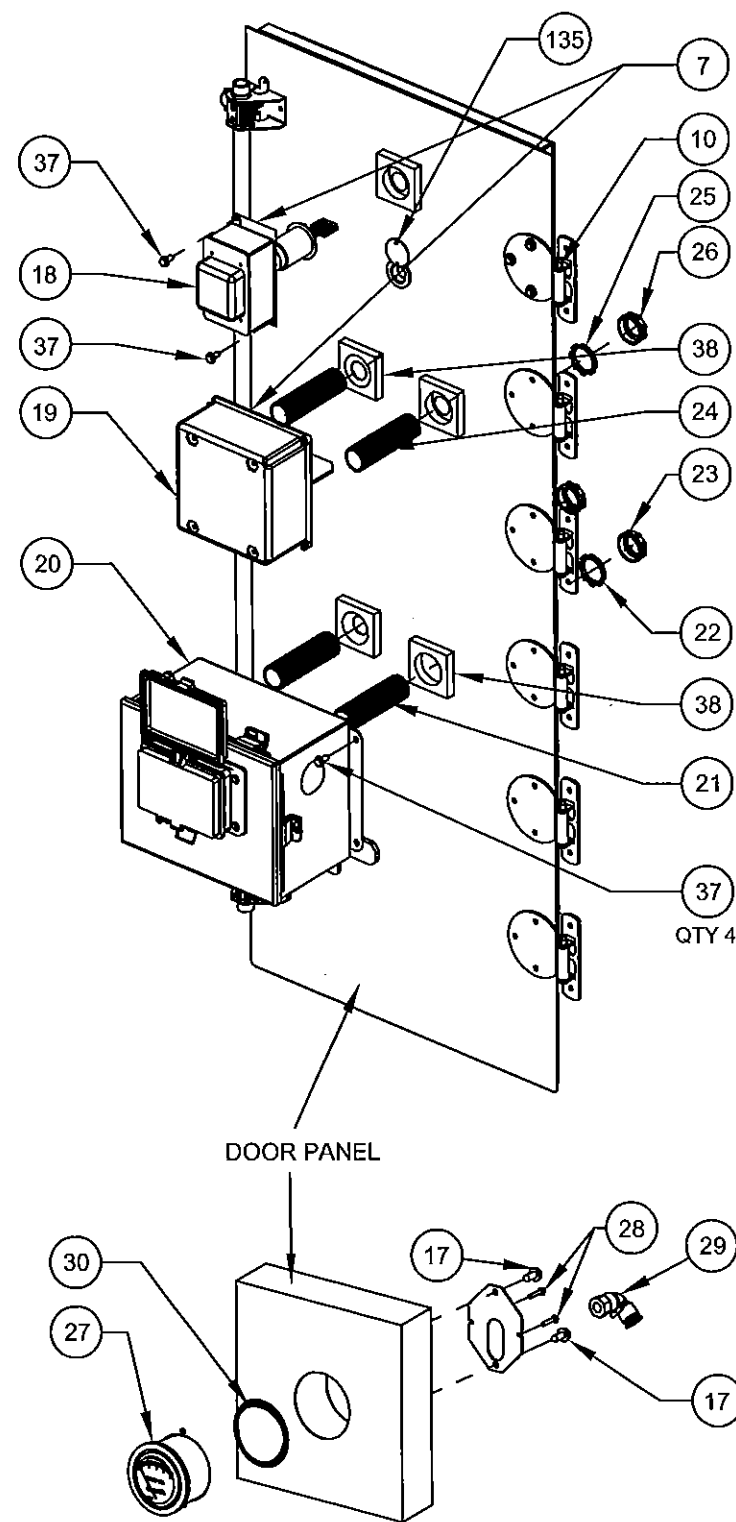
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Acceptance No 14-1120-12  
Expiration Date 11/21/2018  
By *Heidi A. Walters*  
Miami Dade Product Control

*Scott Wolters*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>10 OF 41</b>	SECTION			MOCK UP/DWG SHEET REF: <b>13 OF 50 AND 9 OF 19</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

**COMPONENTS ON DOOR**  
**(TESTED WITH SIZE 50)**

- NOTES:
- 1. THIS PAGE IS SHOWING ALL THE COMPENTS ATTACHED AND TESTED WITH DOORS.
  - 2. THESE COMPONENTS APPLICABLE TO ALL DOORS.
  - 3. TESTED WITH SIZE 50.

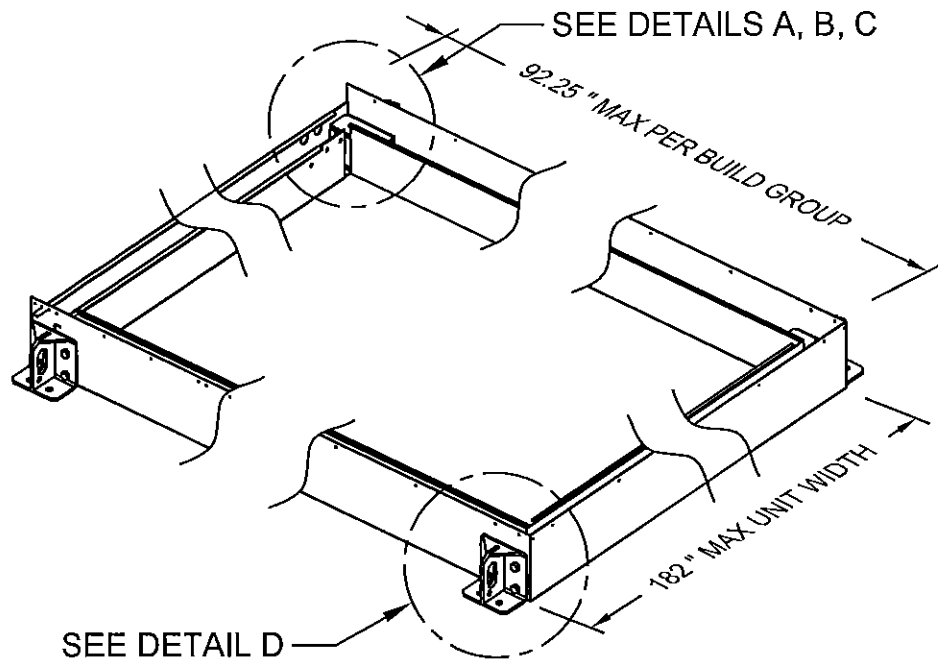


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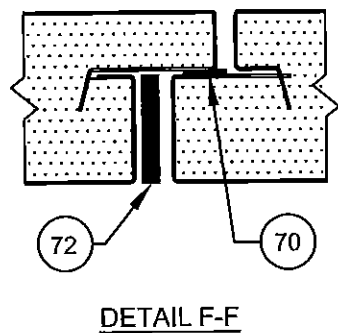
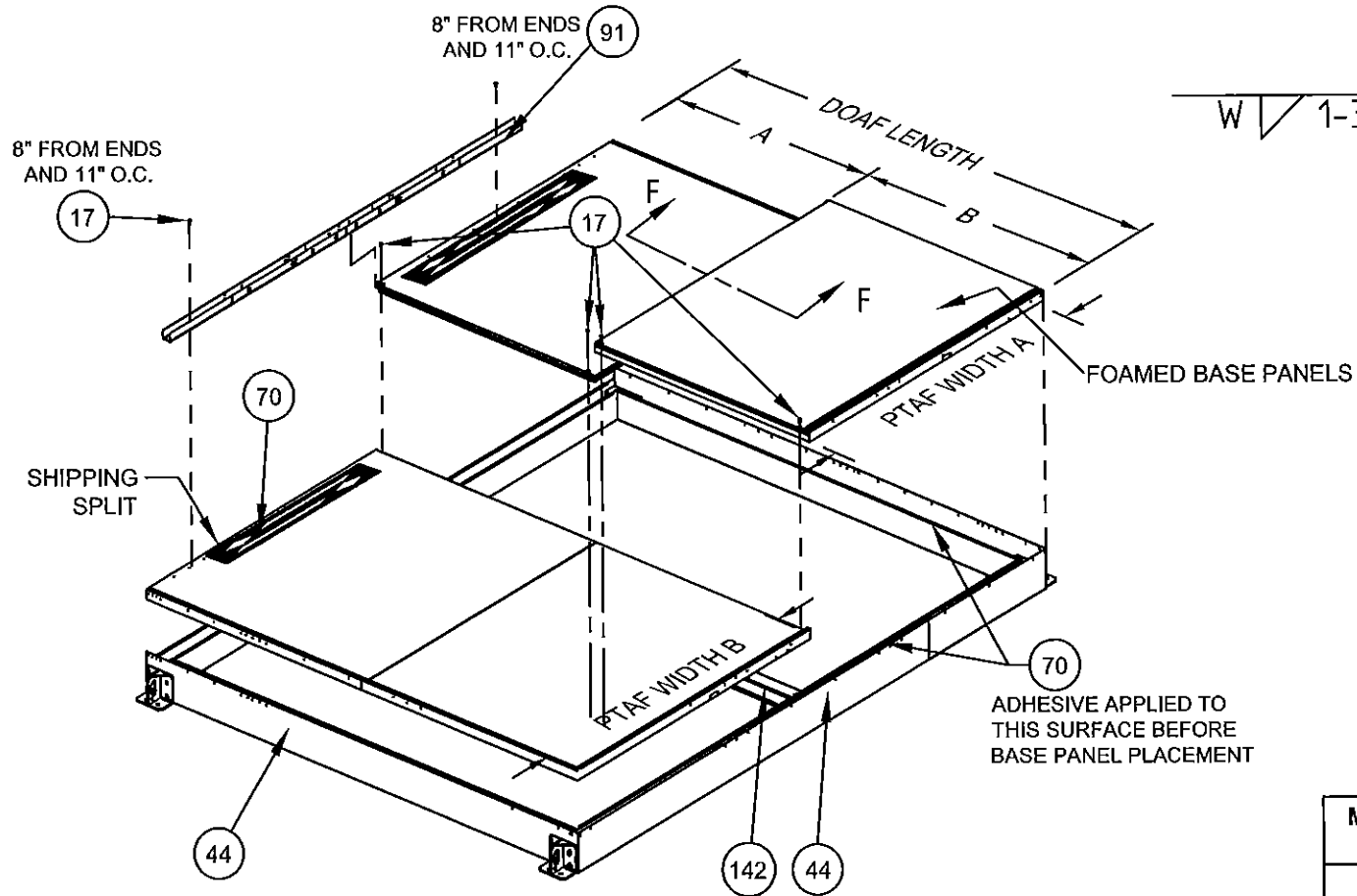
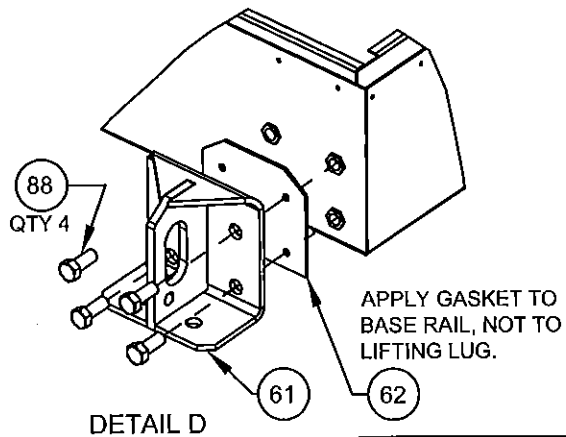
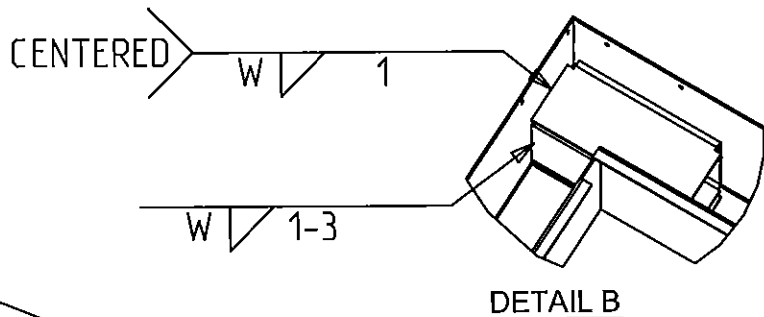
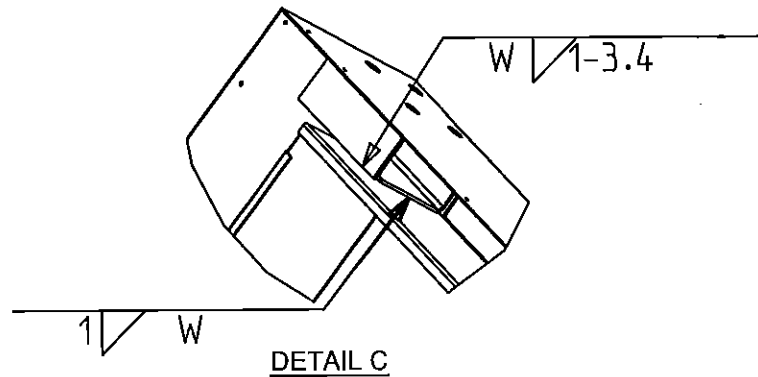
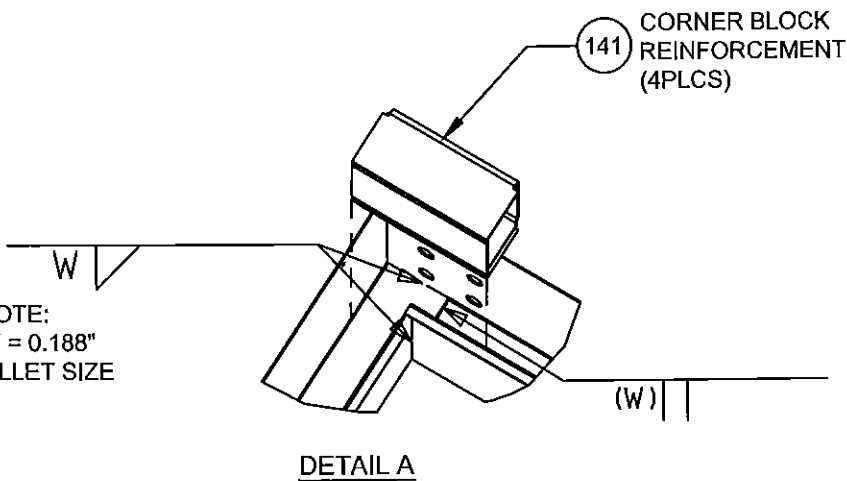
*Scott Wolters*  
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DOOR WIDTH	A1	A2
32.750	11.5	11.125

BASE RAIL AND BASE PANEL



NOTE:  
W = 0.188"  
FILLET SIZE



MAX. DOAF BASE PANEL LENGTH		MAX. PTAF BASE PANEL LENGTH	
A	B	A	B
46.959	45.984	91.66	90.685

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SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING #  
**AIRS0704**

SHEET  
12 OF 41

SECTION

DESC.

**TRANE PERFORMANCE CLIMATE CHANGER  
AIR HANDLER - SIZE 120 UNSTACKED UNIT**

**TRANE**  
US Inc.

REV. HISTORY

---

MOCK UPDWG  
SHEET REF:

**18, 19 OF 50 AND  
29 OF 63**

BY:

**K.YUVARAJA**

SCALE:

**NTS**

REV.

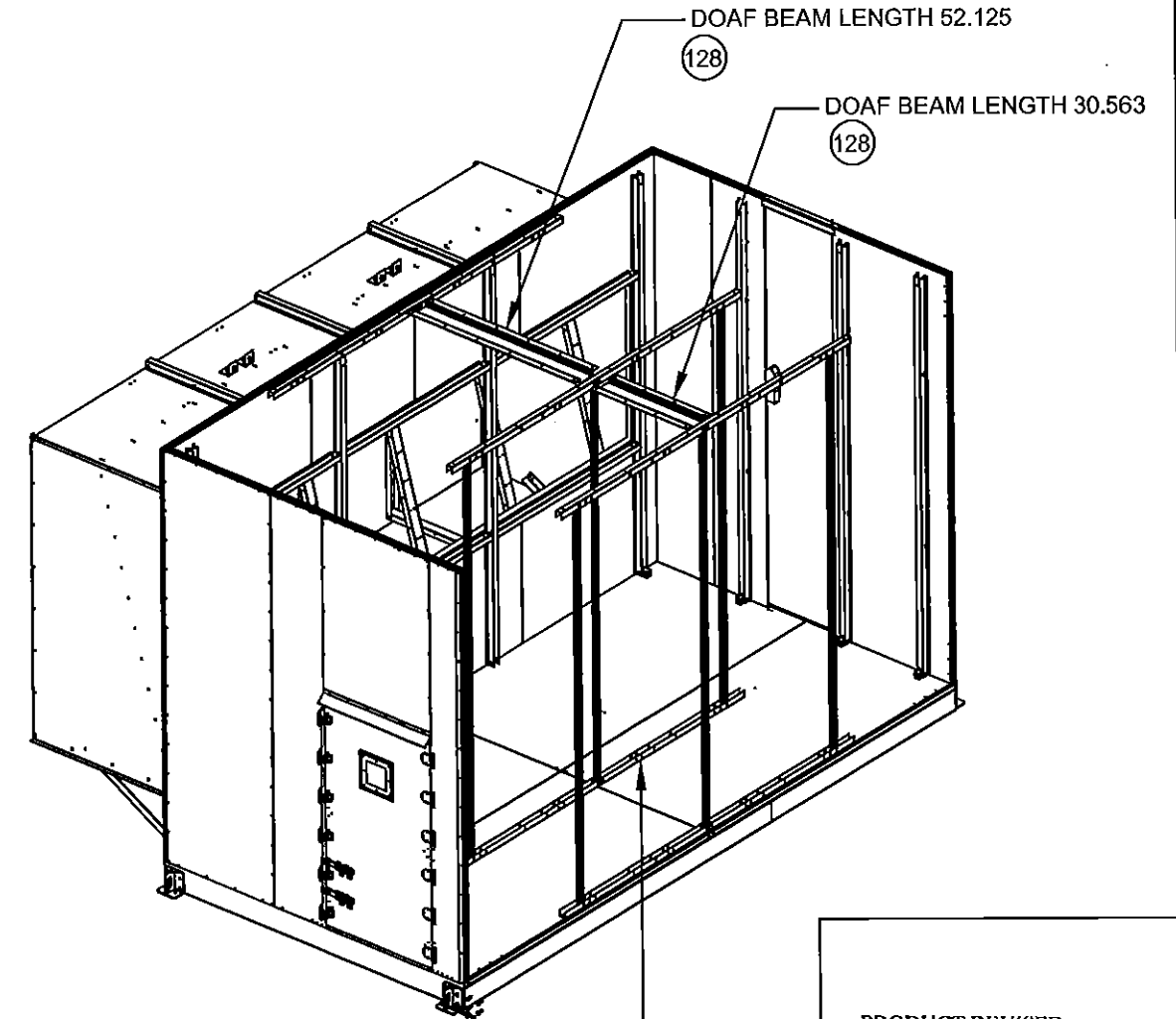
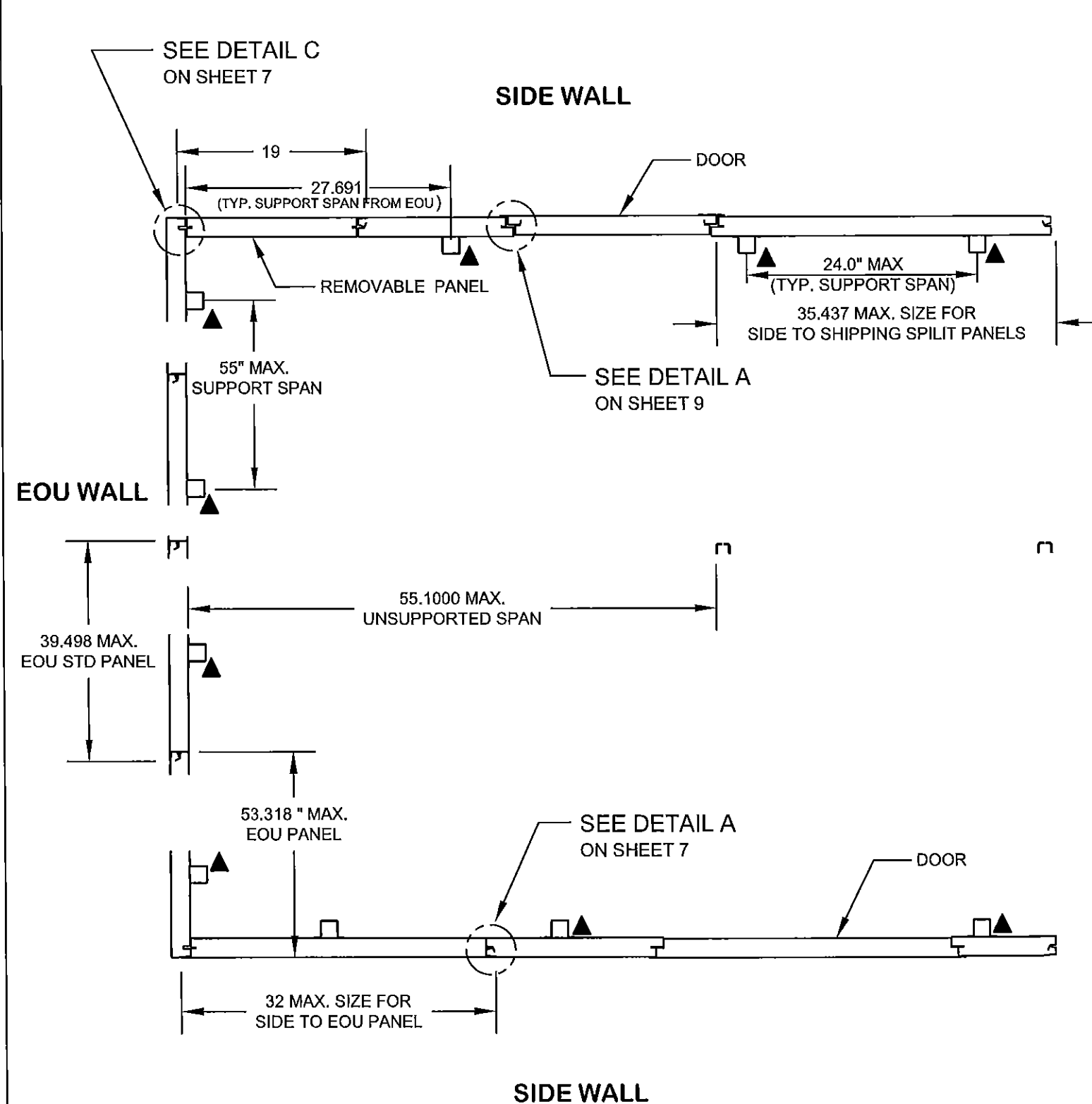
**A**

DATE

**10-SEP-2013**

# TYPICAL WALL PANEL LAYOUT & SUPPORT STRUCTURE (FULL HEIGHT)

(SHOWING EOU WALL STRUCTURE WITH OPENING)  
SEE PAGE 17



THE STRUCTURE IS 55.1\"/>

▲ HAT CHANNEL BRACKET ATTACHED TO THE HAT CHANNEL AND THE BASE PANEL.  
SEE PAGE 17 DETAIL C

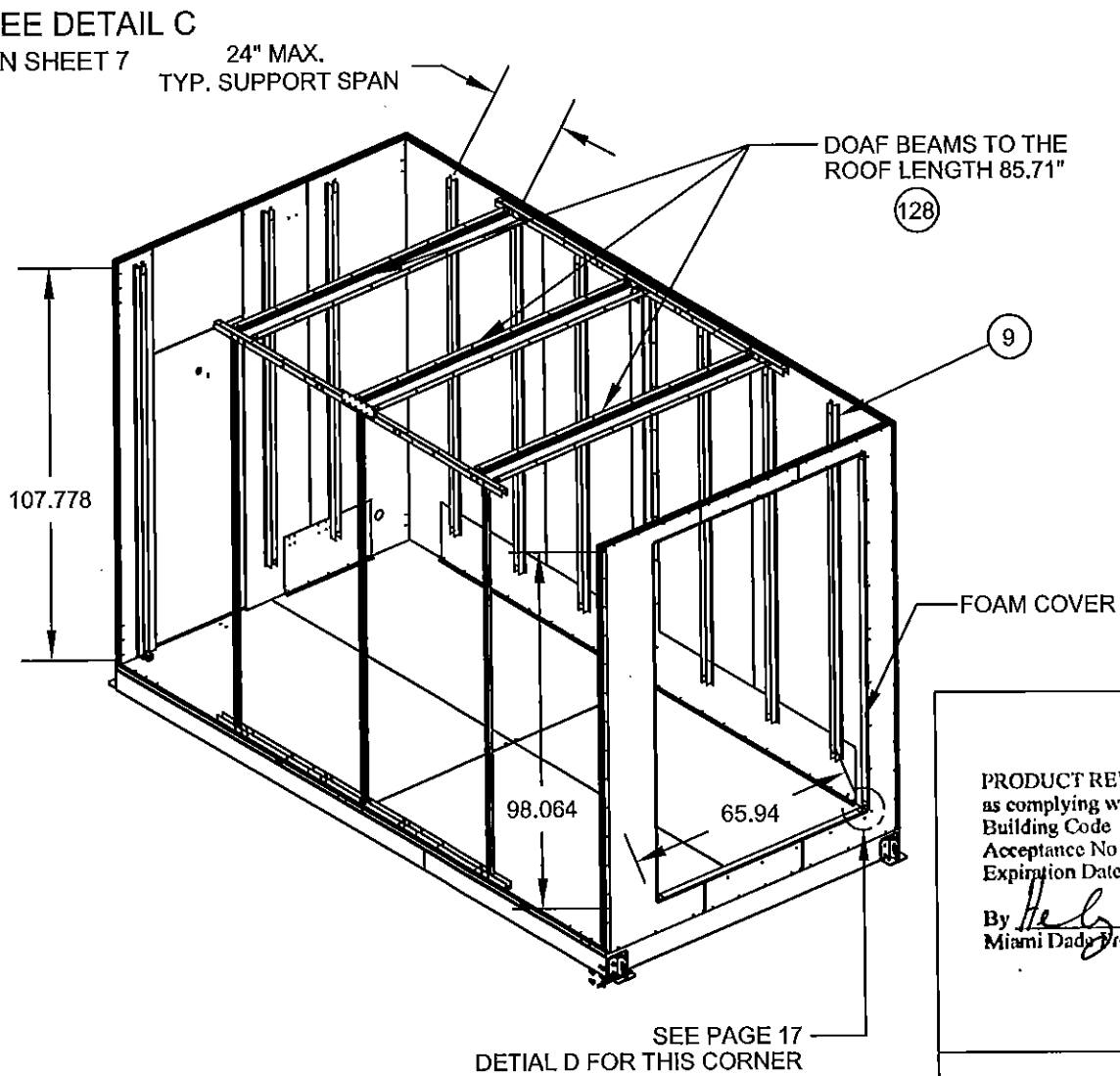
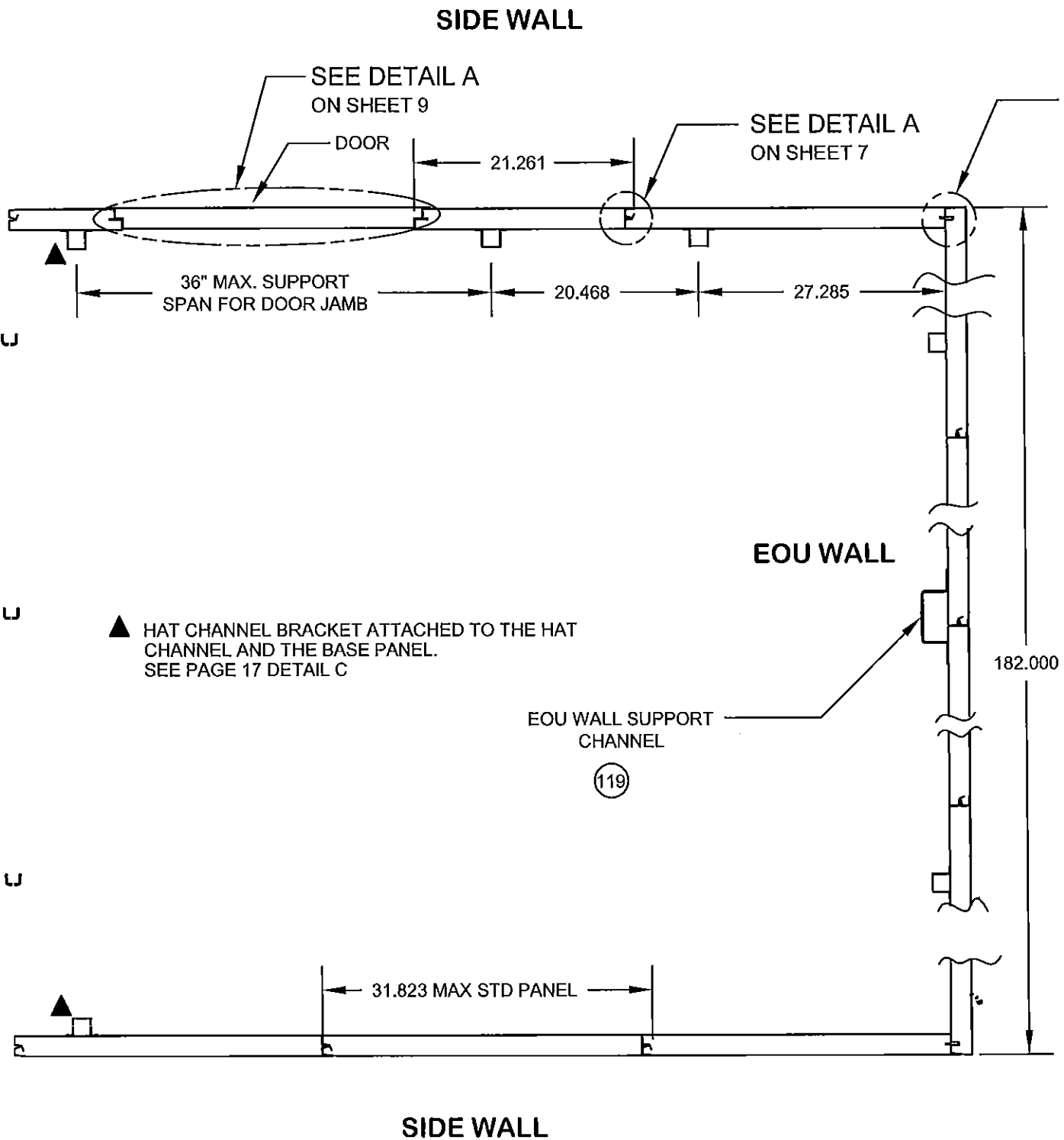
PRODUCT REVISED  
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Acceptance No 14-1120-12  
Expiration Date 11/21/2018  
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SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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SEP 10 2013

DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	13 OF 41	SECTION			MOCK UP DWG SHEET REF:	6 OF 50	SCALE:	NTS	DATE	10-SEP-2013



TYPICAL WALL PANEL LAYOUT & WALL SUPPORT STRUCTURE (BOTH FULL HEIGHT AND SHORT)

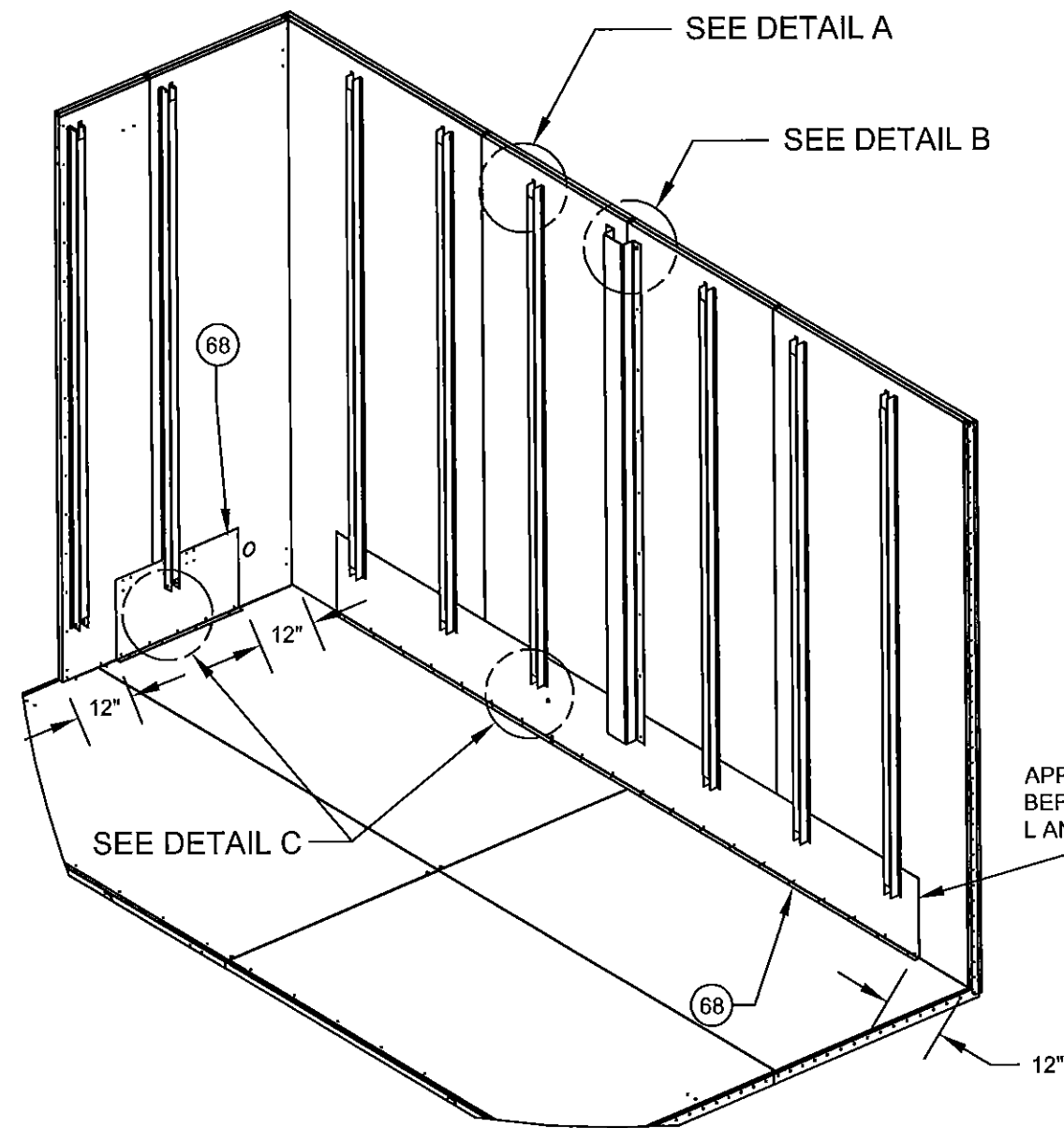


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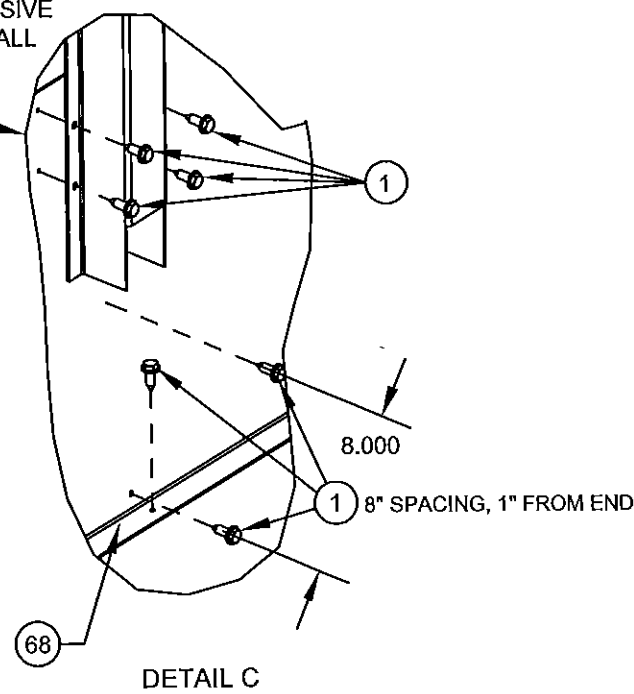
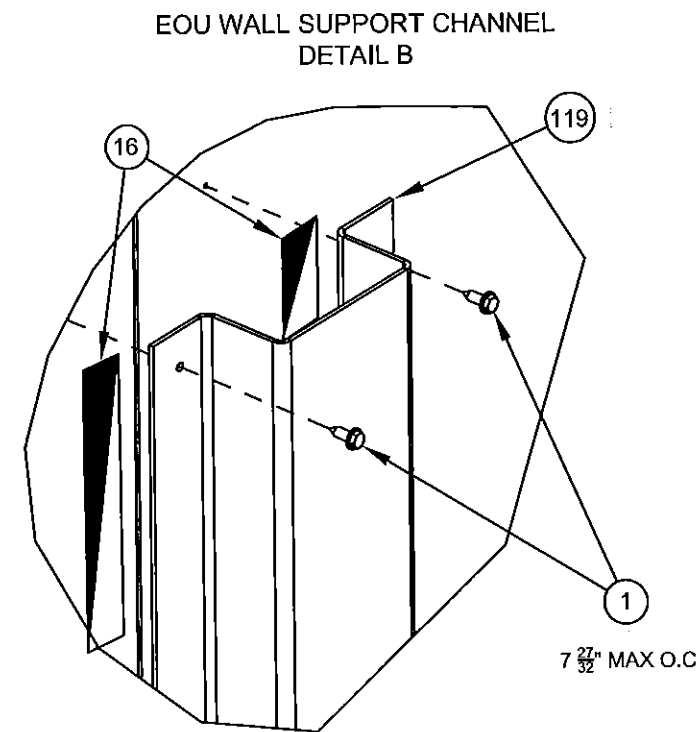
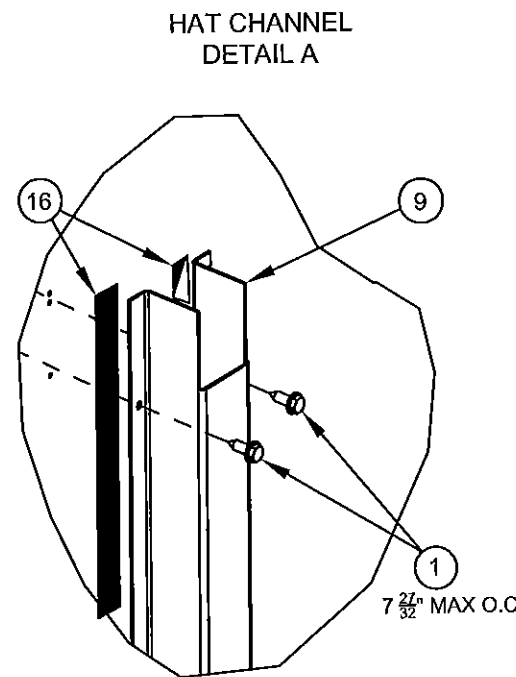
*Scott Wolters*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET 14 OF 41	SECTION			MOCK UP DWG SHEET REF: 8 OF 50	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

# **WALL SUPPORT STRUCTURE INSTALL (SHORT HAT CHANNELS)**



APPLY TWO 0.5" BEADS 1 PART ADHESIVE BEFORE ATTACHING THE BOTTOM WALL L ANGLE TO THE WALL PANEL.



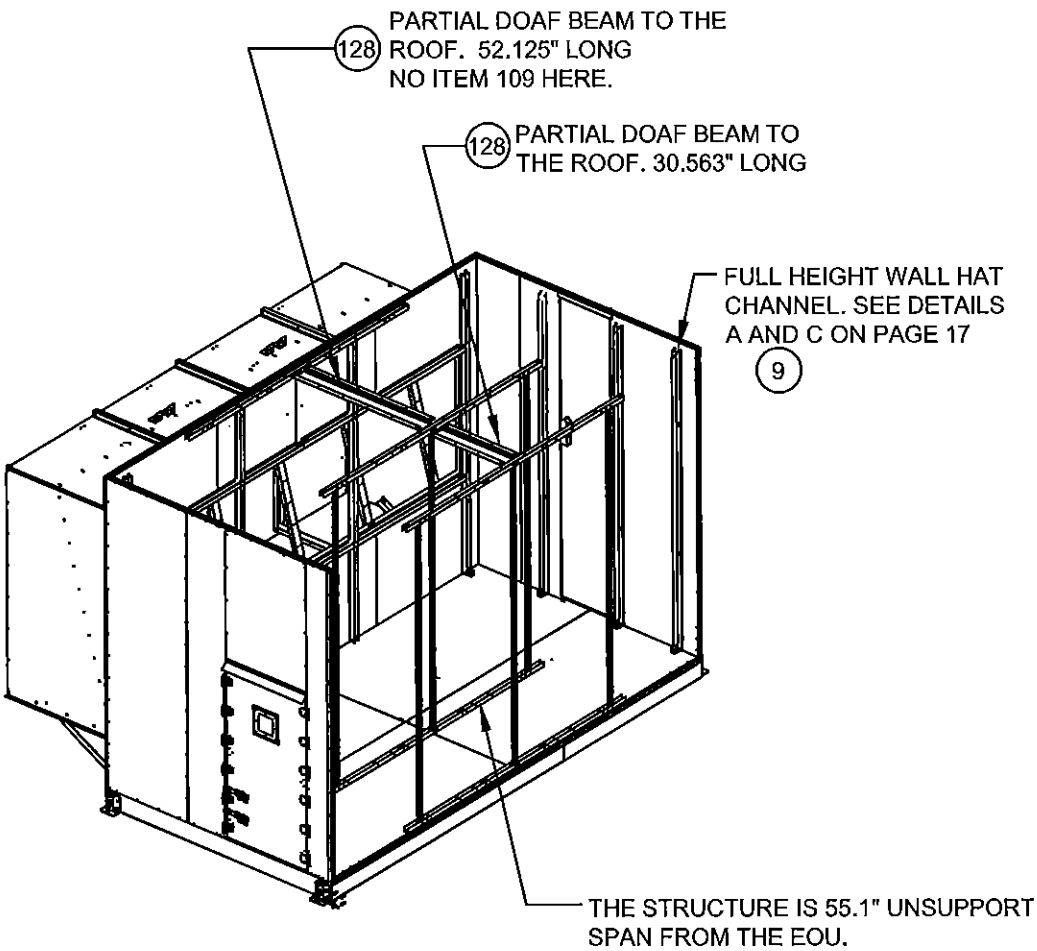
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Expiration Date 11/21/2018  
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Miami Data Product Control

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SCOTT WOLTERS  
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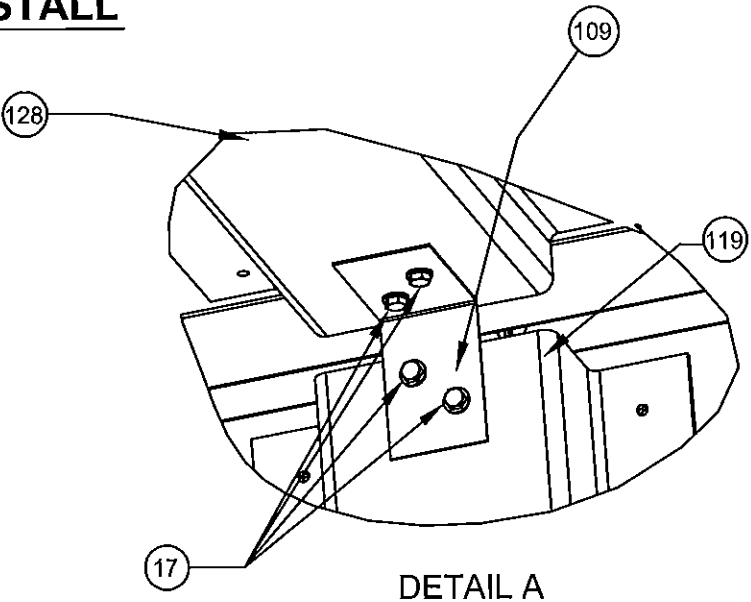
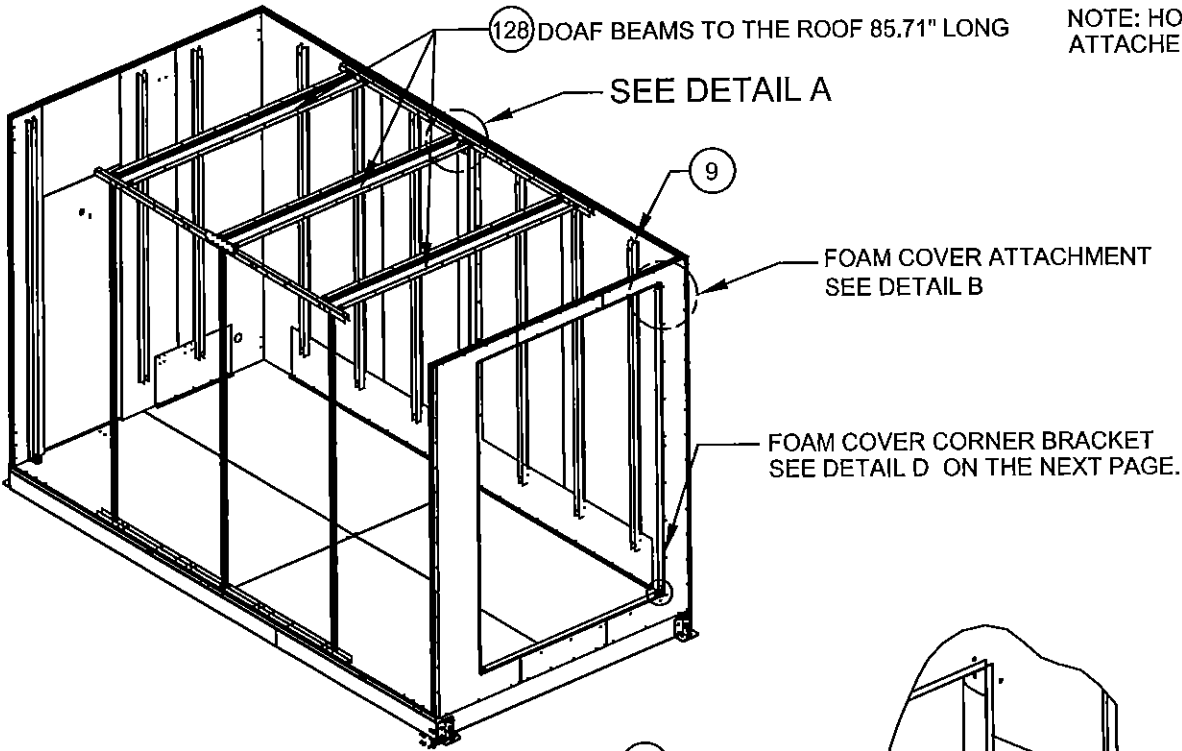
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SHEET <b>15 OF 41</b>	SECTION		MOCK UP DWG SHEET REF: <b>27 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

ROOF SUPPORT STRUCTURE TO WALL STRUCTURE INSTALL

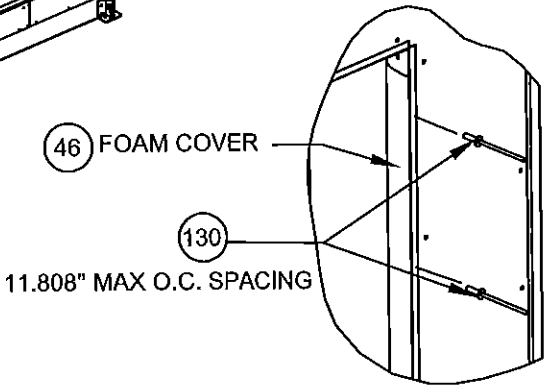
BUILD GROUP 2



BUILD GROUP 1



NOTE: HOOD SUPPORT BRACKET ANGLE IS ATTACHED TO THE MIDDLE DOAF BEAM ONLY



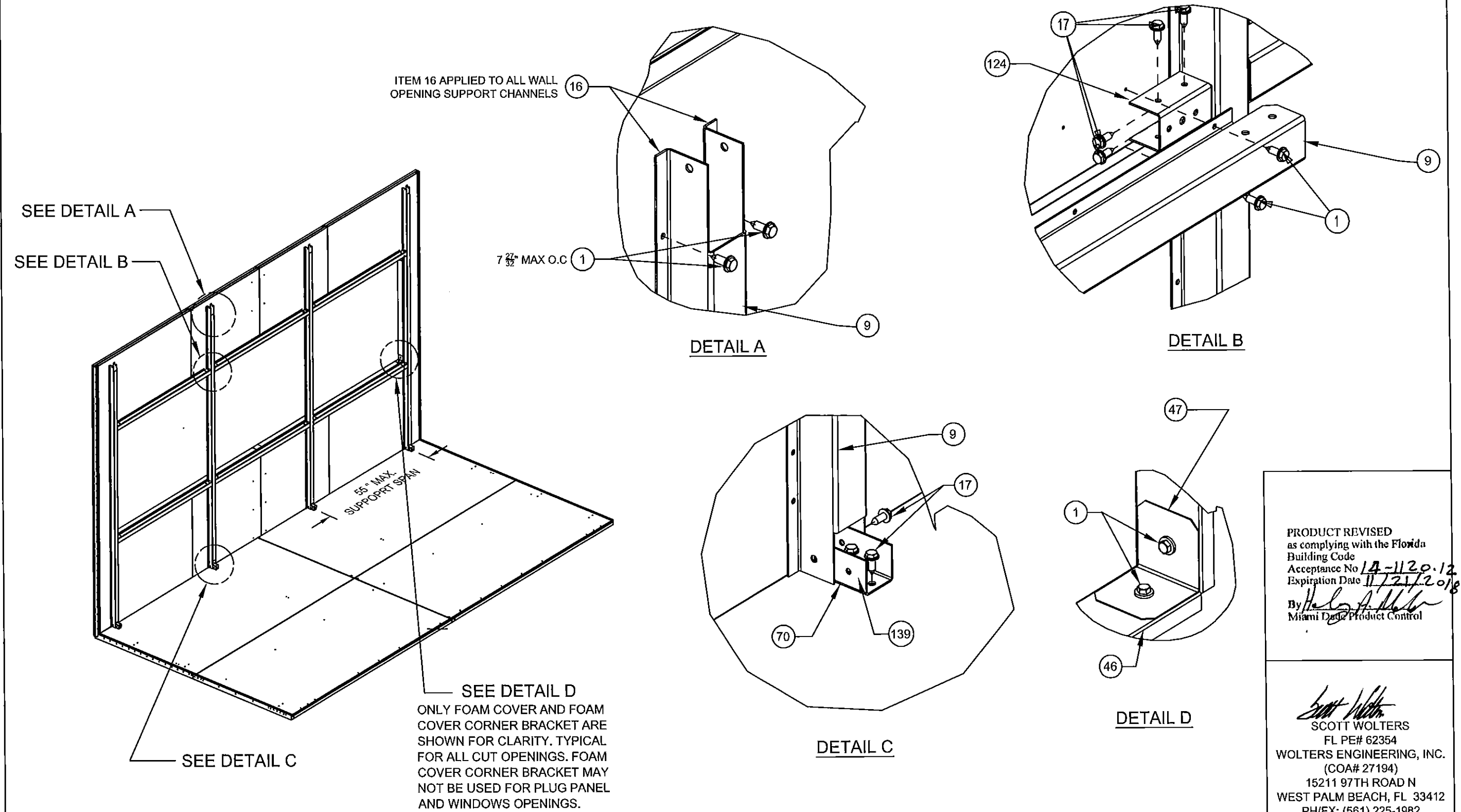
DETAIL B

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-1120-12  
Expiration Date 11/21/2018  
By *[Signature]*  
Miami Dade Product Control

*[Signature]*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>16 OF 41</b>	SECTION			MOCK UPDWG SHEET REF: <b>6, 8 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

WALL AND OPENING SUPPORT STRUCTURE  
(WITH FULL HEIGHT HAT CHANNEL)

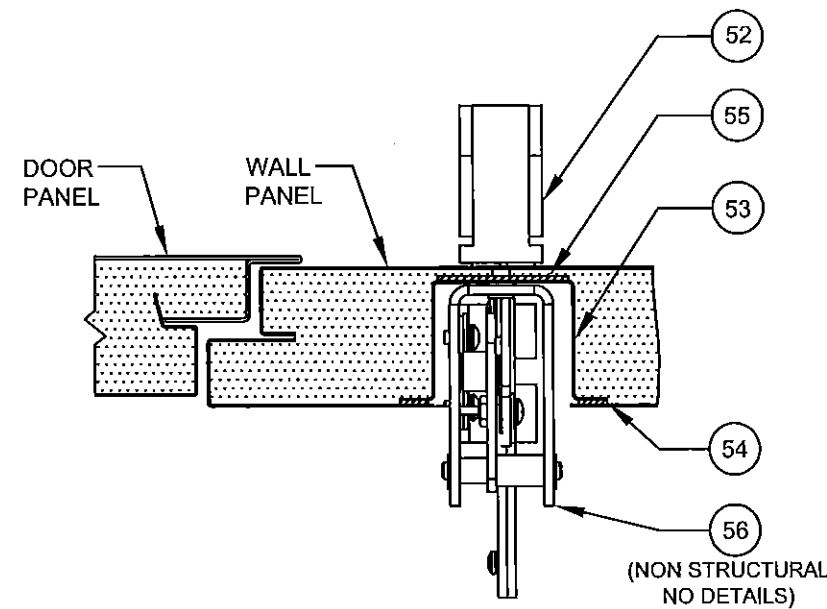


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Expiration Date 11/21/2018  
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Miami Data Product Control

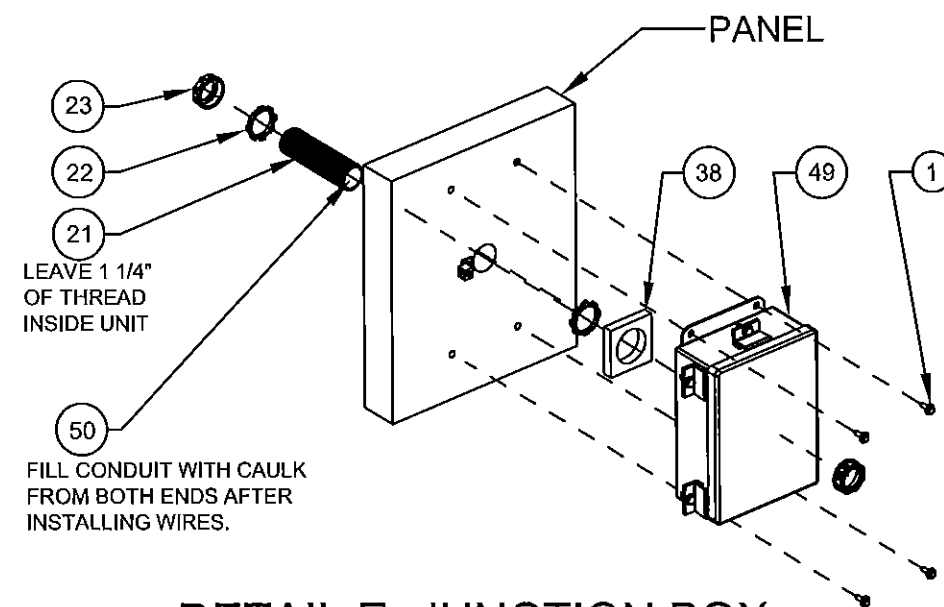
*Scott Wolters*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
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15211 97TH ROAD N  
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DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	17 OF 41	SECTION			MOCK UPDWG SHEET REF:	28 OF 50	SCALE:	NTS	DATE	10-SEP-2013

OTHER GENERIC COMPONENT



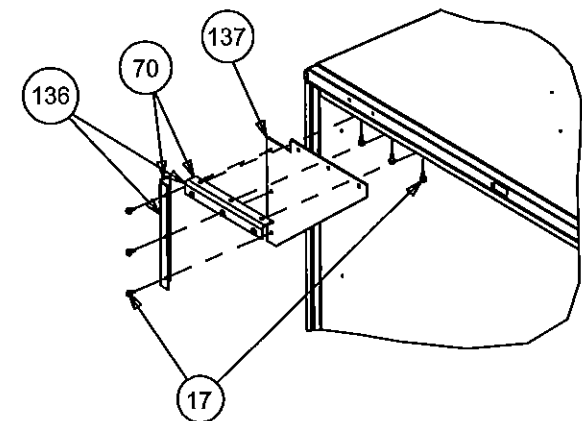
DETAIL C. DISCONNECT HANDLE



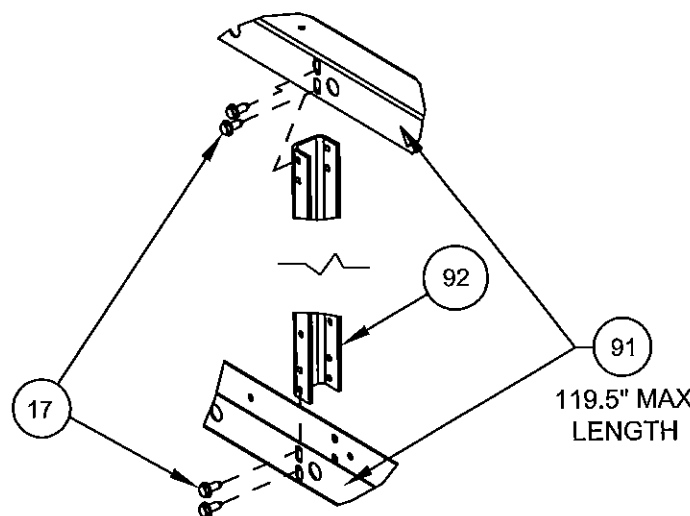
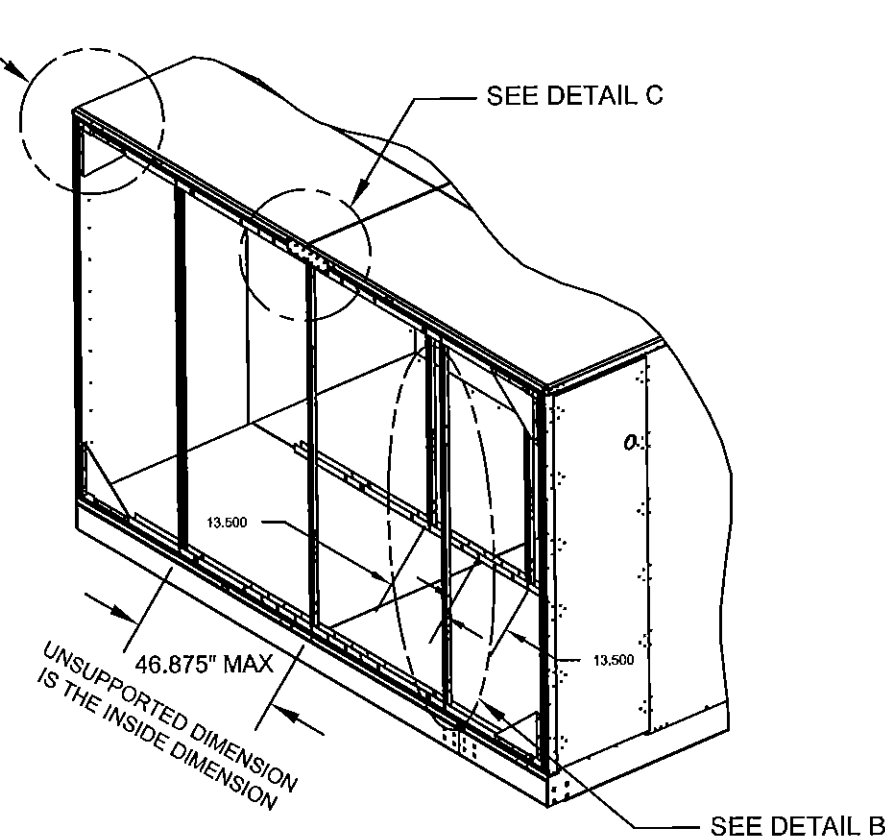
DETAIL E. JUNCTION BOX  
(TESTED WITH SIZE 50)

BUILD GROUP / SHIPPING SPLIT CONSTRUCTION  
DETAILS FOR STANDARD UNIT

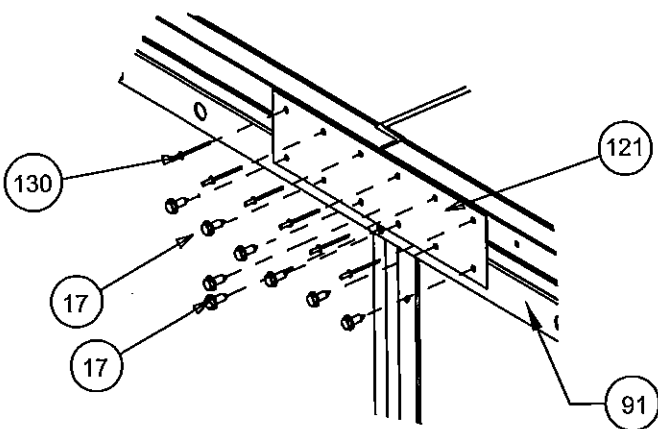
NOTES:  
1. GUSSETS ARE APPLIED ON 1ST LEVEL ONLY.



DETAIL A  
GUSSET INSTALL



DETAIL B  
SHIP SPLIT VERT. CHANNEL INSTALL



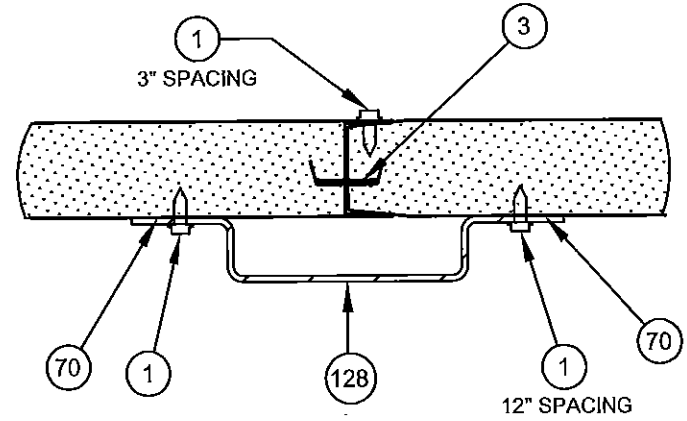
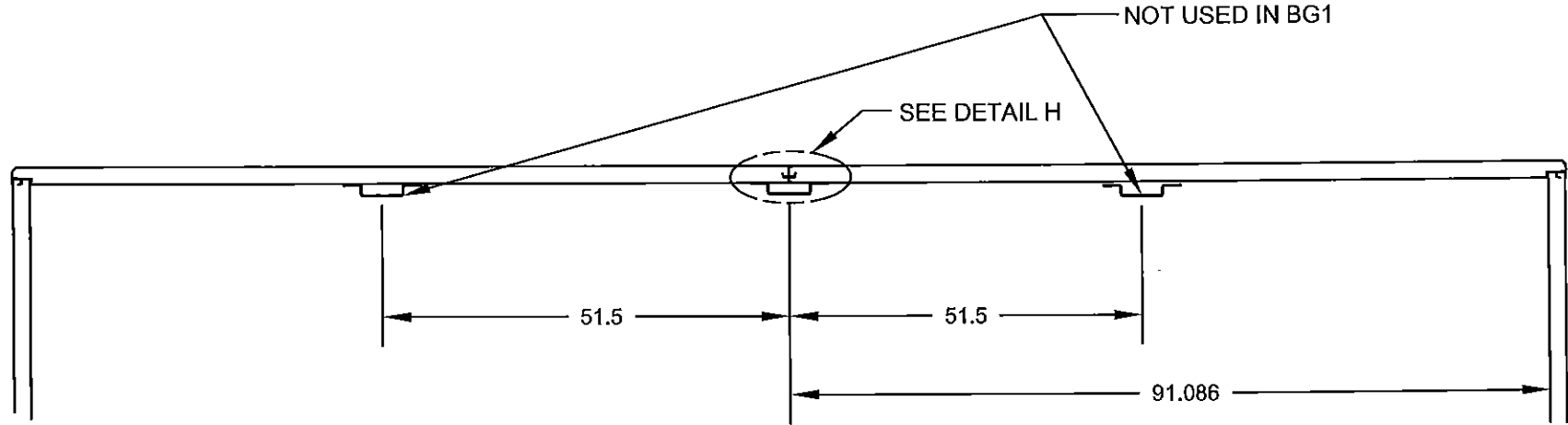
DETAIL C  
SPLICE PLATE INSTALL

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as complying with the Florida  
Building Code  
Acceptance No. 14-1120.12  
Expiration Date 11/21/2018  
By *[Signature]*  
Miami Dade Product Control

*[Signature]*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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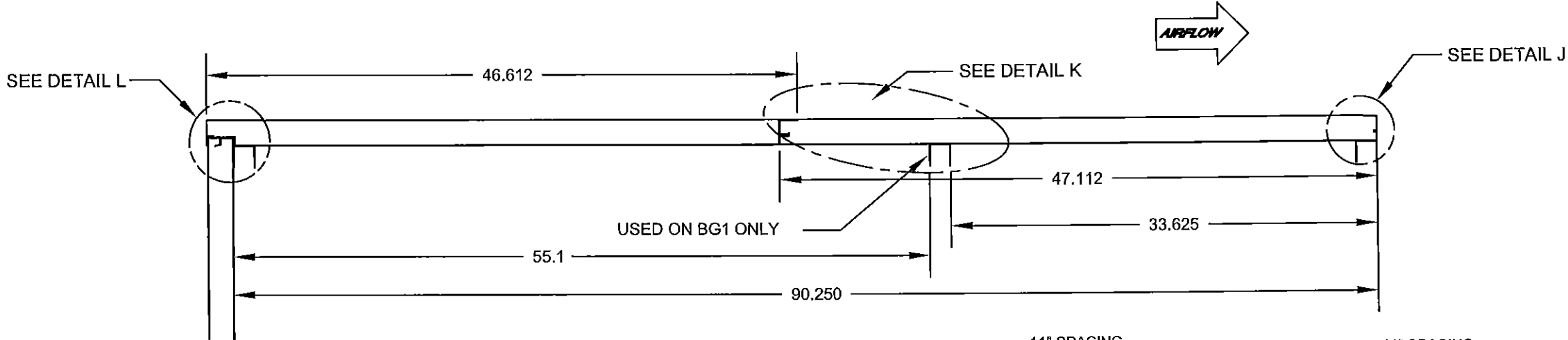
DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	18 OF 41	SECTION			MOCK UPDWG SHEET REF:	2, 7, 29 OF 50	SCALE:	NTS	DATE	10-SEP-2013

# **ROOF PANEL CONSTRUCTION (CROSS SECTION)** **AIR FLOW DIRECTION IS INTO THE PAGE**

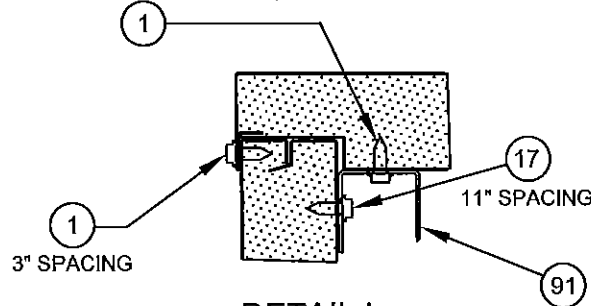


**DETAIL H**

# **ROOF PANEL CONSTRUCTION (CROSS SECTION)**



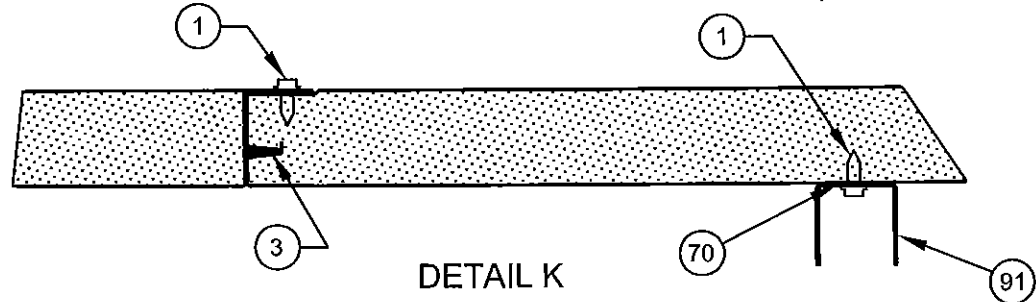
11" SPACING (TYPICAL FOR ALL PTAF SUPPORT CHANNEL)



**DETAIL L**

PTAF SUPPORT CHANNEL ON EOU AND ROOF JOIN

3" SPACING

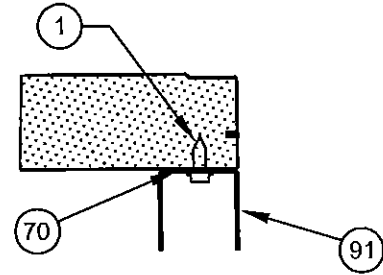


**DETAIL K**

ITEM 91, PTAF SUPPORT CHANNEL ON THE ROOF (REPRESENTING ATTACHMENT OF INTERNAL COMPONENTS) NOT APPLICABLE TO BG 2

11" SPACING (TYPICAL FOR ALL PTAF SUPPORT CHANNEL)

11" SPACING (TYPICAL FOR ALL PTAF SUPPORT CHANNEL)



**DETAIL J**

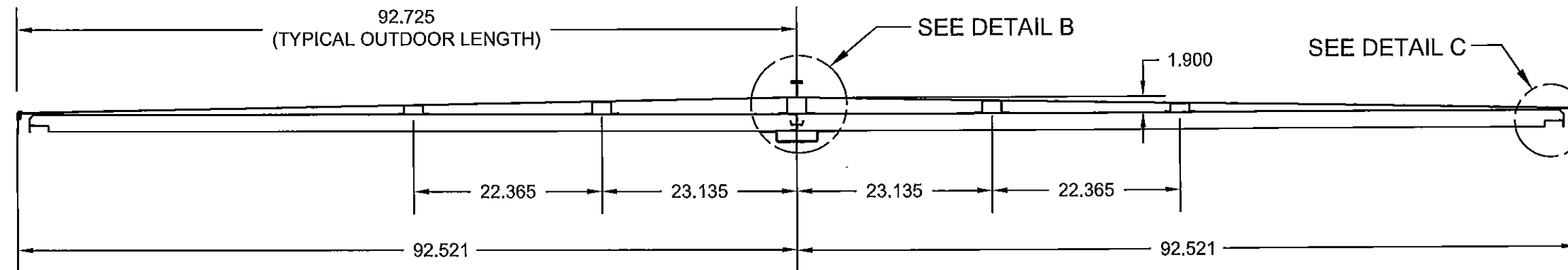
ITEM 91, PTAF SUPPORT CHANNEL AT SHIPPING SPLIT

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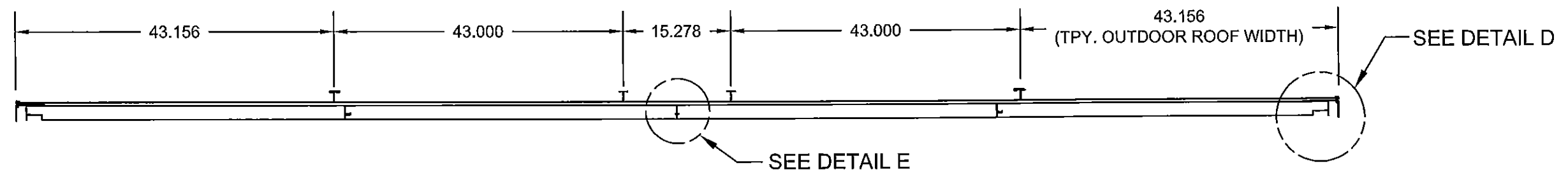
*Scott Wolters*  
 SCOTT WOLTERS  
 FL PE# 62354  
 WOLTERS ENGINEERING, INC.  
 (COA# 27194)  
 15211 97TH ROAD N  
 WEST PALM BEACH, FL 33412  
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DRAWING #	<b>AIRS0704</b>	DESC.	<b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY	---	BY:	<b>K.YUVARAJA</b>	REV.	<b>A</b>
SHEET	<b>19 OF 41</b>	SECTION			MOCK UPDWG SHEET REF:	<b>25, 26 OF 50</b>	SCALE:	<b>NTS</b>	DATE	<b>10-SEP-2013</b>

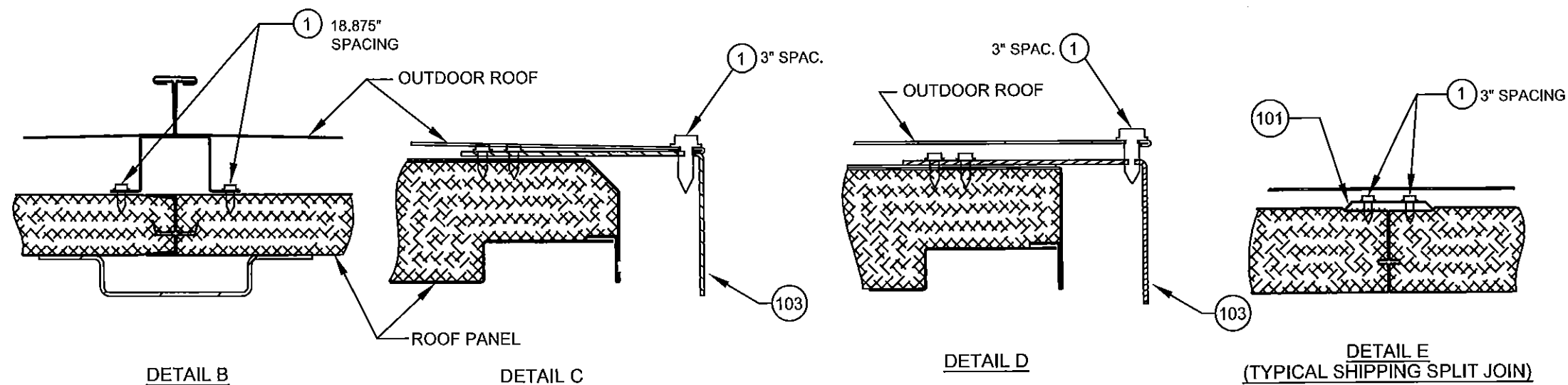
# OUTDOOR ROOF TO ROOF PANEL



**SECTION B-B**  
(ROOF PANEL WITH OUTDOOR ROOF)



**SECTION A-A**  
(ROOF PANEL WITH OUTDOOR ROOF)

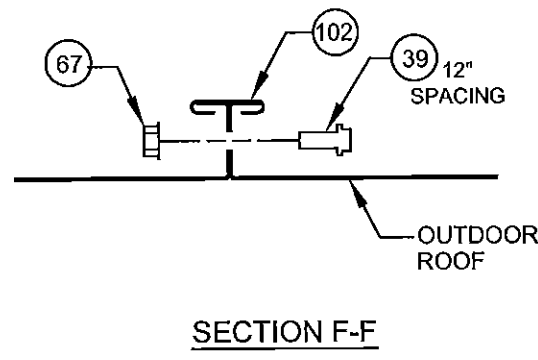
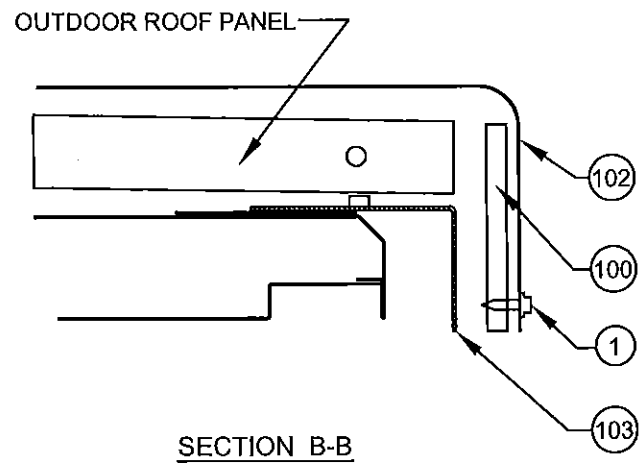
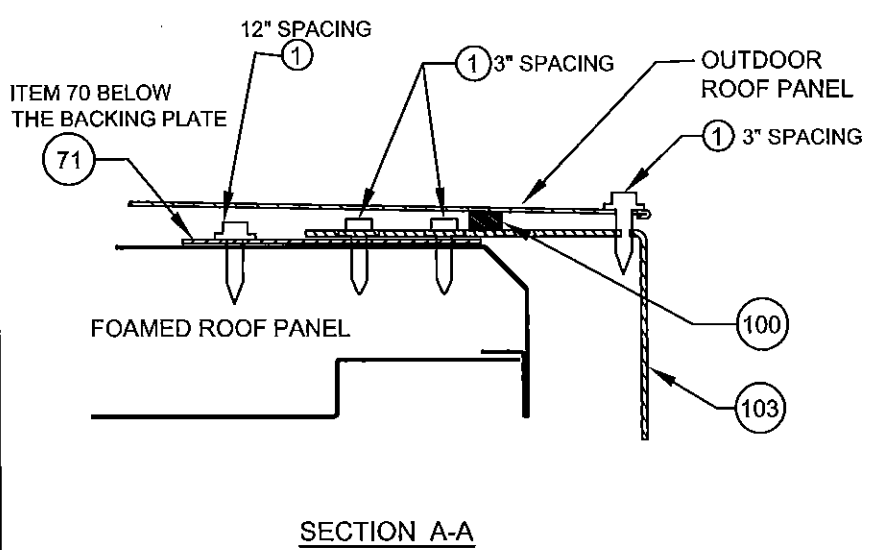
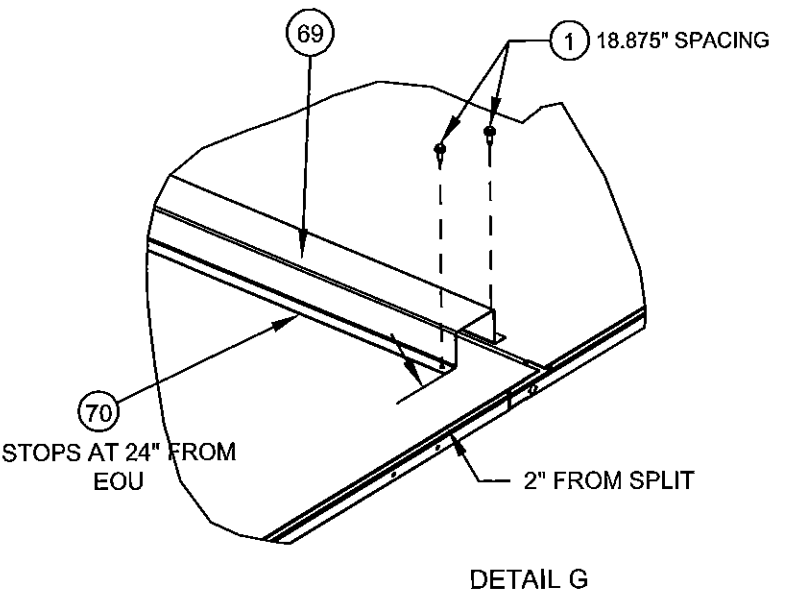
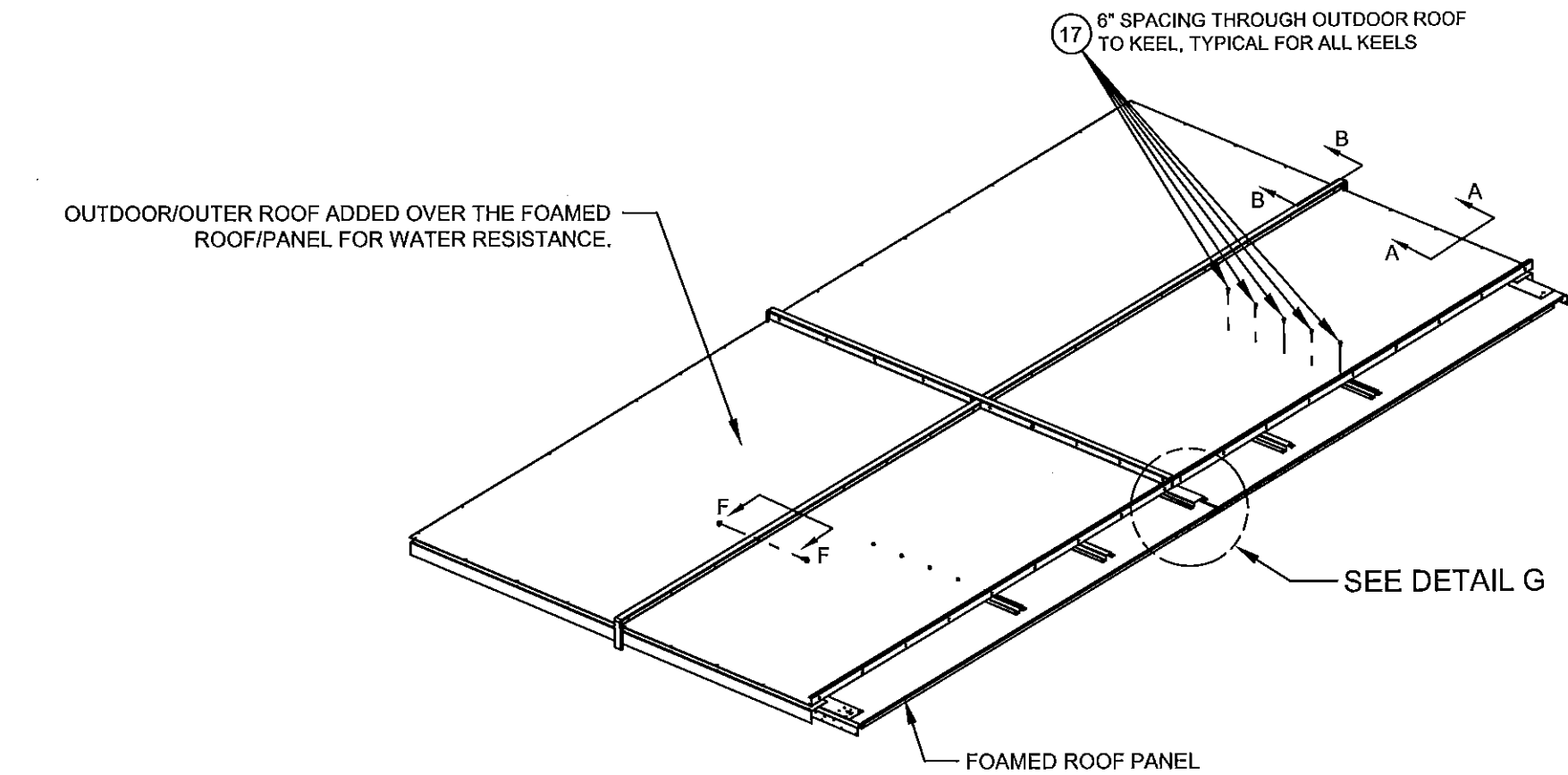


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Expiration Date 11/21/2018  
By: *[Signature]*  
Miami Dade Product Control

*[Signature]*  
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SEP 10 2013

DRAWING # <b>AIRS0704</b>	DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET 20 OF 41			MOCK UPDWG SHEET REF: 24 OF 50	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

OUTDOOR ROOF DETAILS



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Expiration Date 11/21/2018  
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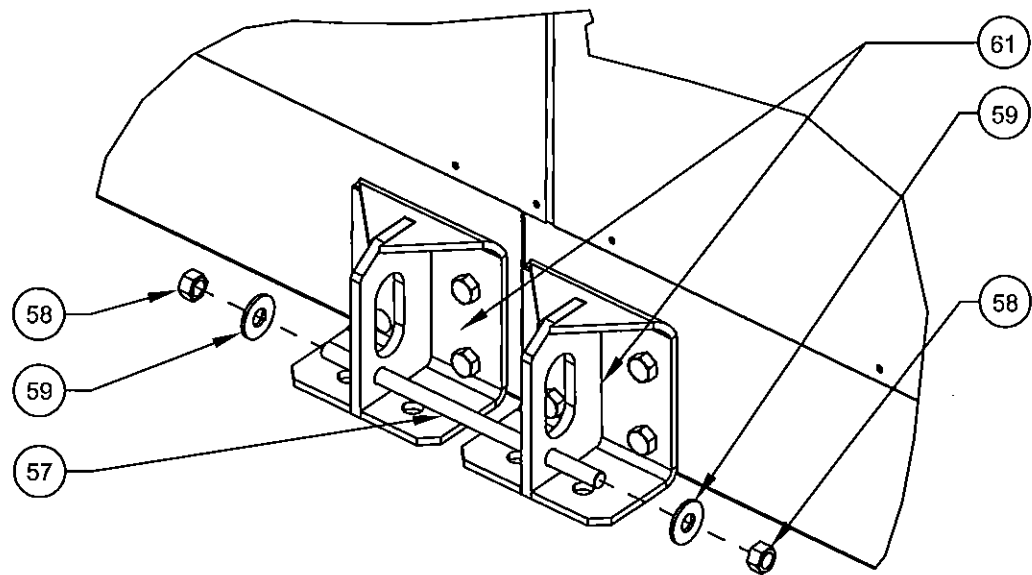
*[Signature]*  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>21 OF 41</b>	SECTION			MOCK UP DWG SHEET REF: <b>20, 22-23 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

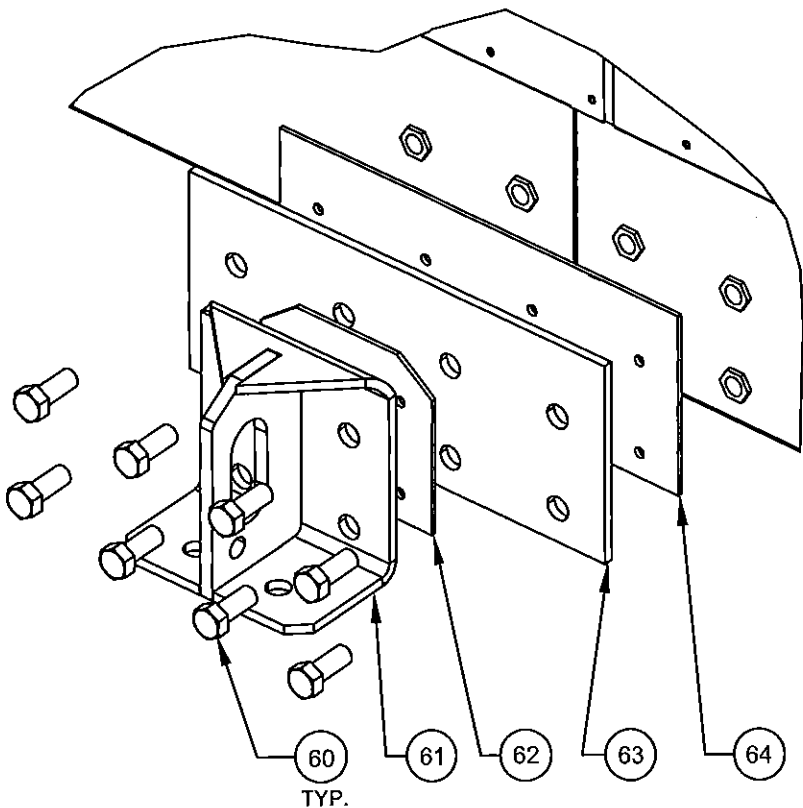


**BUILD GROUP/ SHIPPING SPLIT JOIN DETAILS AT THE BASE RAIL.**

USE THREADED ROD TO PULL AND HOLD THE BUILD GROUPS TOGETHER.



IF A SPLICE PLATE IS PREFERRED, REMOVE LIFTING LUGS AND INSTALL SPLICE PLATE TO HOLD THE BUILD GROUP BASES TOGETHER. IF A LUG IS REQUIRED AT THAT LOCATION, IT SHALL BE CENTERED ON THE SPLICE PLATE.



- NOTES:
- 1. SECTIONS / BUILDGROUPS PULLED TOGETHER WITH THREADED ROD.
  - 2. IF NEEDED, THIS CAN BE WITH ITEM 63 OR LEAVE IT AS IS WITH THREADED ROD.

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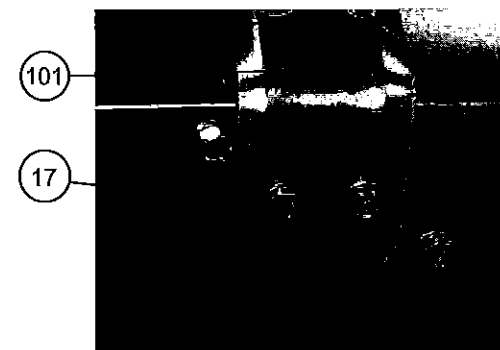
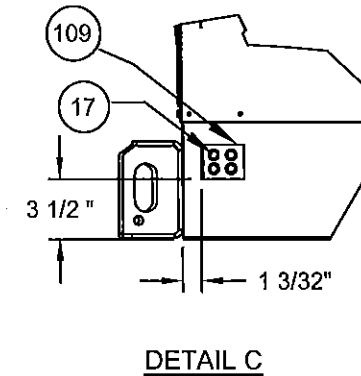
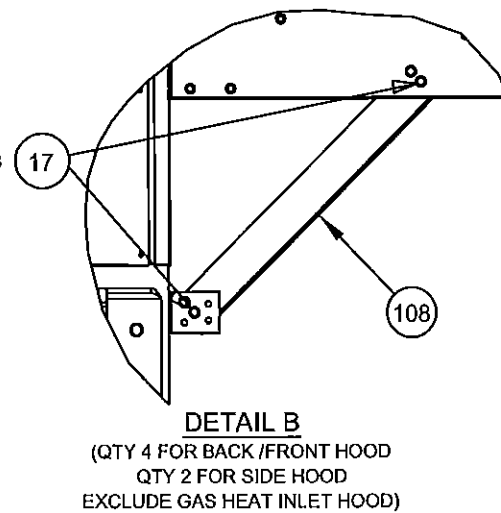
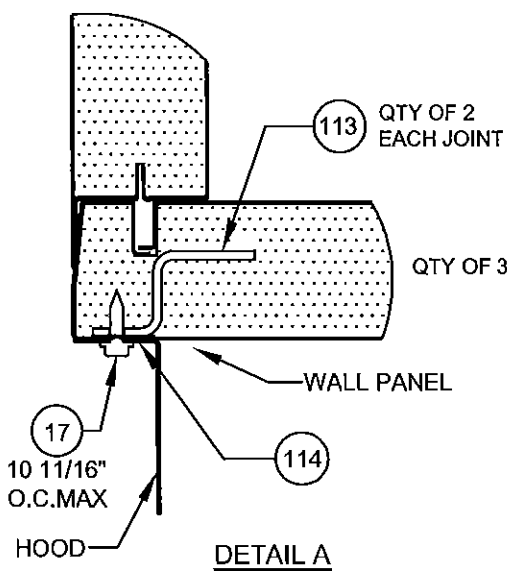
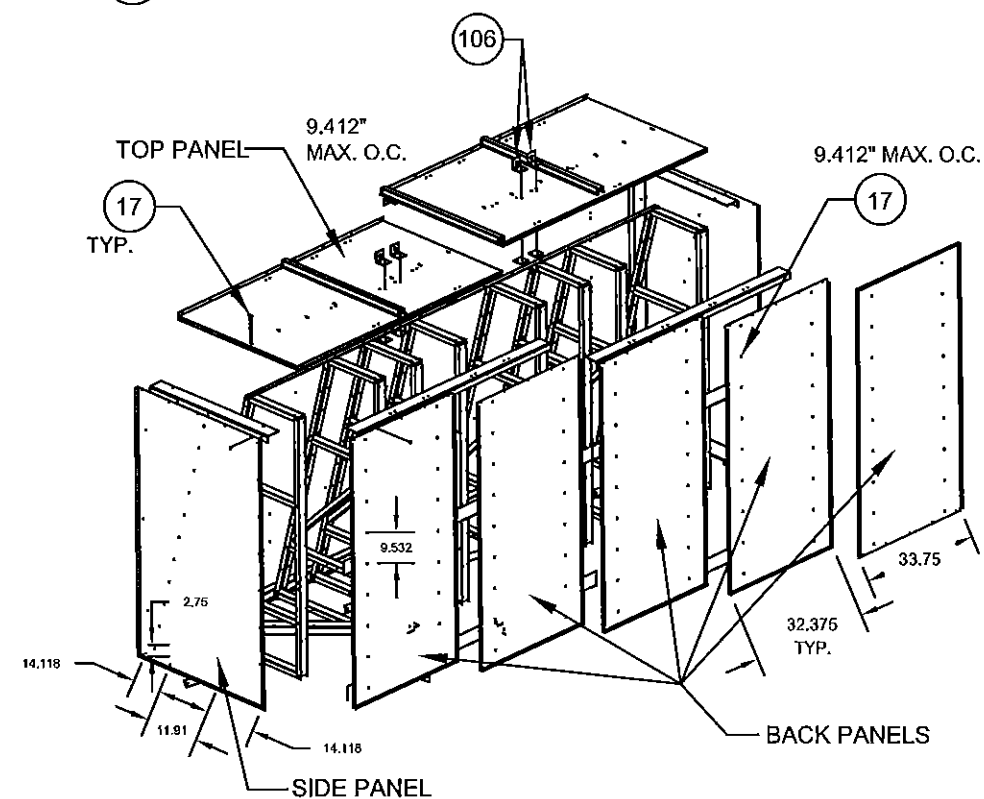
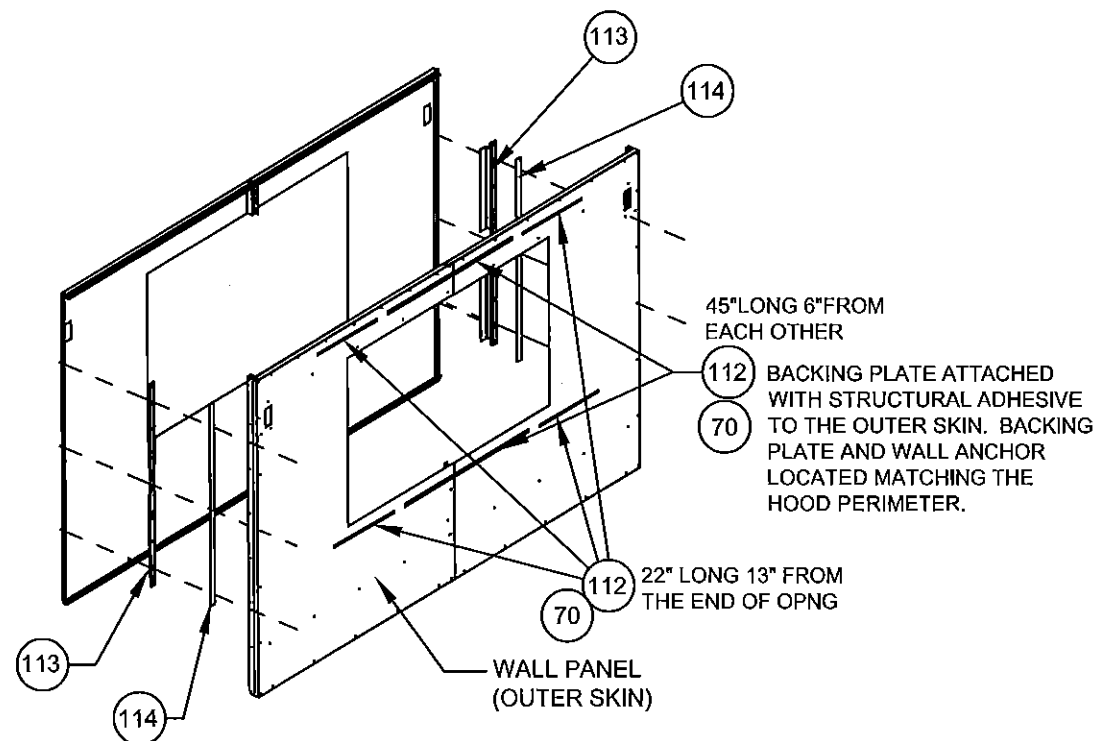
*[Signature]*  
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FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>22 OF 41</b>	SECTION			MOCK UPDWG SHEET REF: <b>39 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

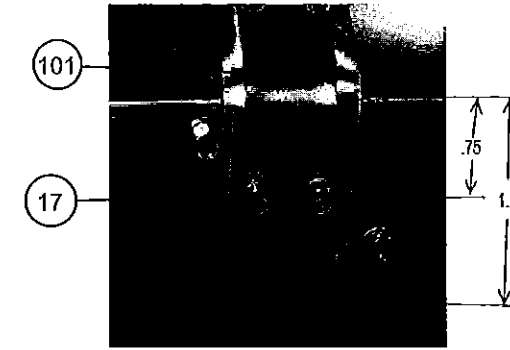
## HOOD ATTACHMENT FEATURES

NOTES;

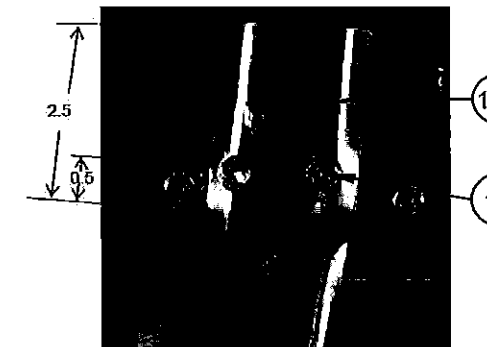
1. ALL L ANGLES ARE FASTENED AND GLUED TO PANELS PRIOR TO ATTACHING THEM TO THE A FRAME SUBASSEMBLY.
2. L ANGLE ATTACHED TO THE PANELS WITH 1/4" SCREWS, AT 18" MAX SPACING.
3. TOP PANELS ATTACHED TO EACH OTHER WITH 4 SCREWS AT 11" O.C.
4. HOOD STRAP: 53" LONG FOR FRONT/BACK HOOD, AND 67" LONG FOR SIDE HOOD.



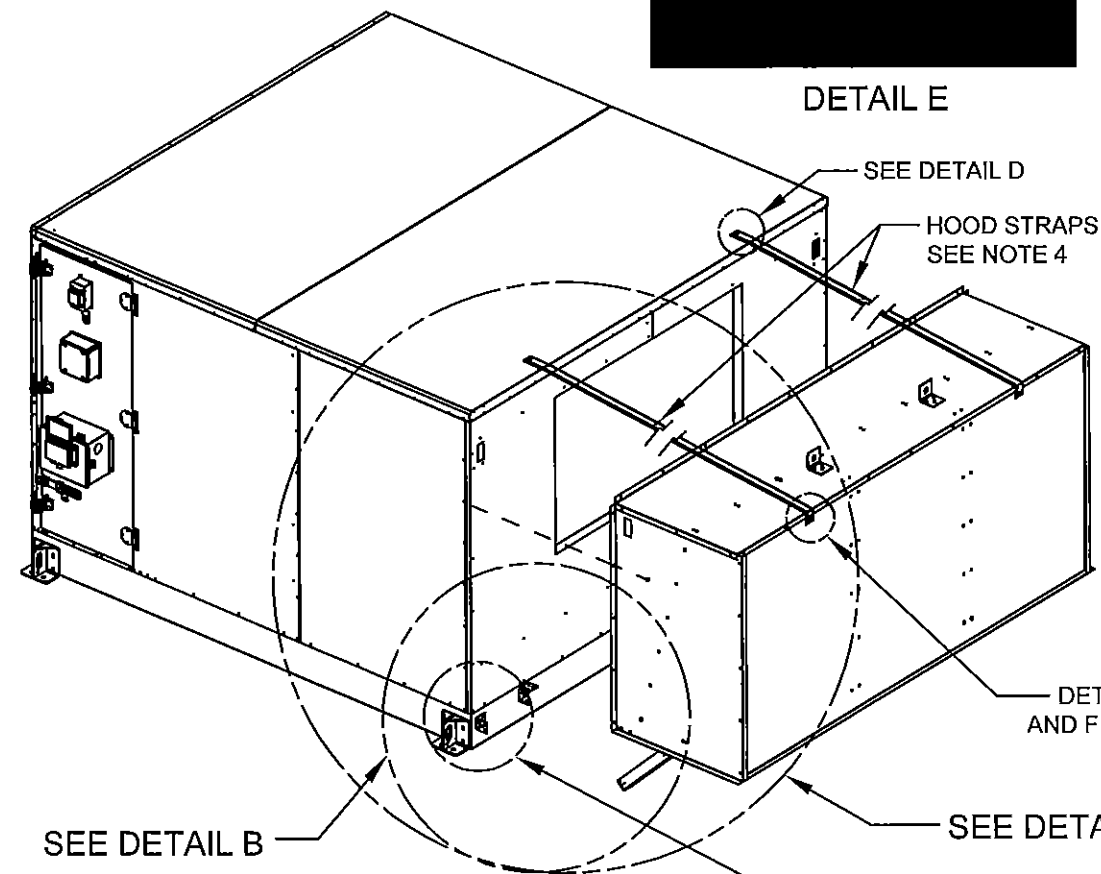
### DETAIL E




DETAIL C




DETAIL D

HOOD ATTACHMENT

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Expiration Date 11/21/2018  
By *Heidi A. Webb*  
Miami Dept. Product Control

  
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FL PE# 62354  
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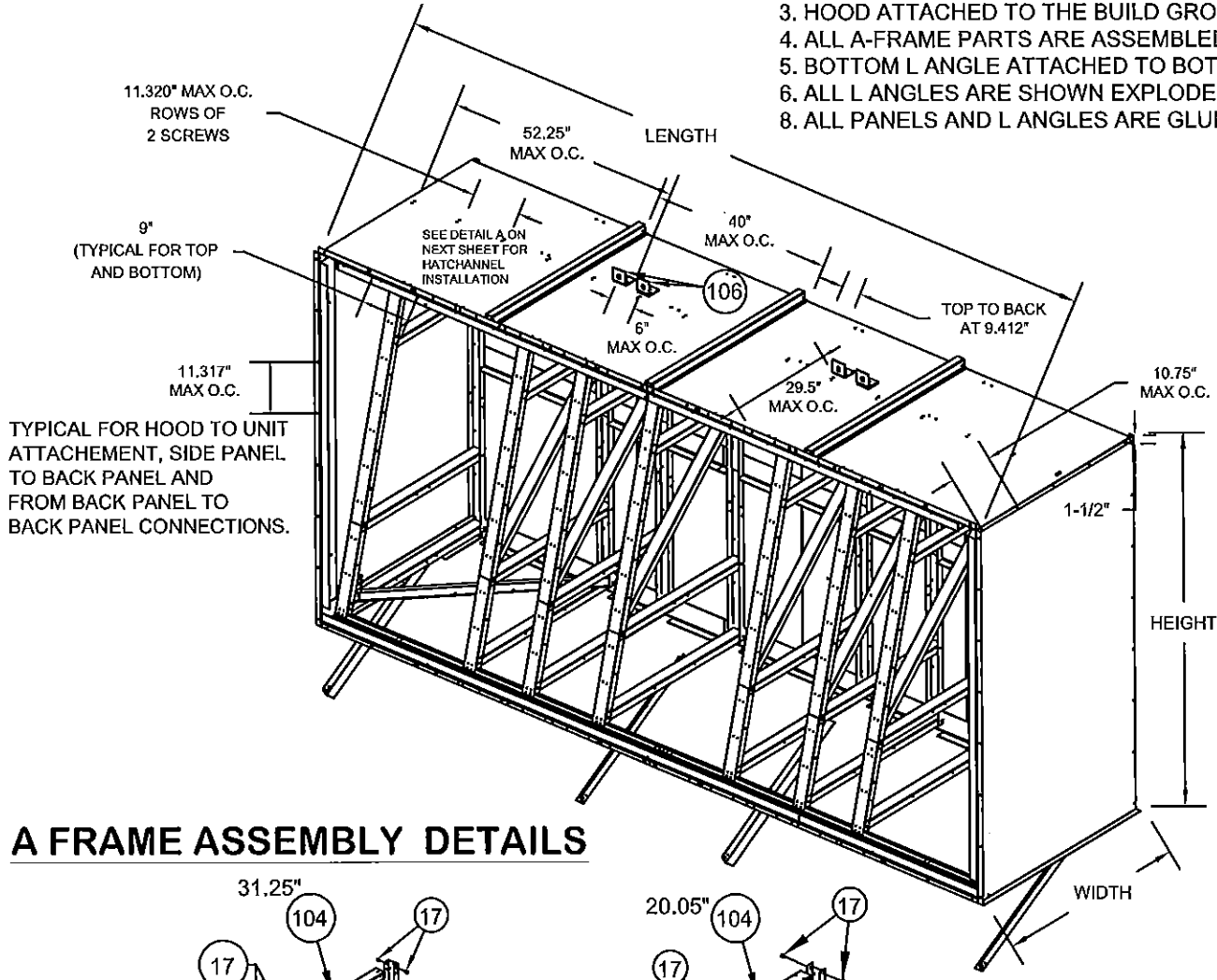
SEP 10 2001

DRAWING # <b>AIRS0704</b>		DESC.  <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>		REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>23 OF 41</b>	SECTION			MOCK UPDWG SHEET REF: <b>35-37 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

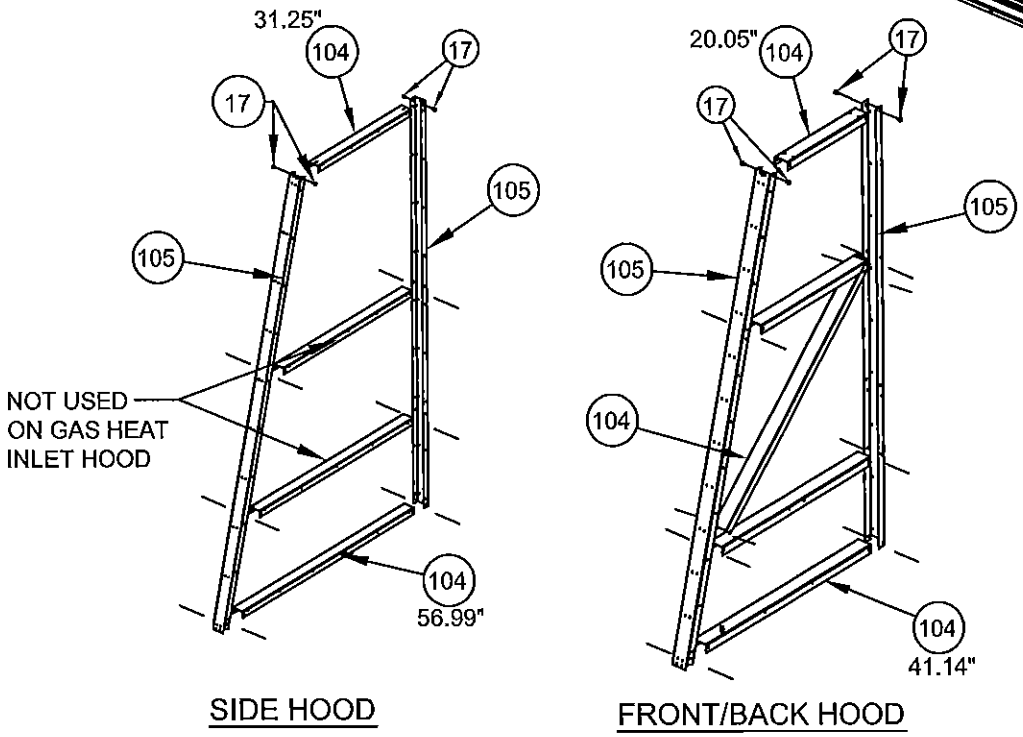
HOOD ASSEMBLY DETAILS

- NOTES:
- 1. ALL METAL SKINS ARE ATTACHED WITH SCREW 0.25-14 x .75 SELF DRILLER.
  - 2. TOP PANEL TO BACK PANEL ATTACHMENT USED 0.25-14 X 1.5 SELF DRILLER.
  - 3. HOOD ATTACHED TO THE BUILD GROUP USING 0.25-14 X 0.75 SELF DRILLER.
  - 4. ALL A-FRAME PARTS ARE ASSEMBLED WITH 0.25-14 X 0.75 SELF DRILLER.
  - 5. BOTTOM L ANGLE ATTACHED TO BOTTOM PANEL WITH ITEM 17 AT 12" O.C.
  - 6. ALL L ANGLES ARE SHOWN EXPLODED FOR DIMENSIONING PURPOSES.
  - 8. ALL PANELS AND L ANGLES ARE GLUED TO EACH OTHER AND TO THE A FRAME.

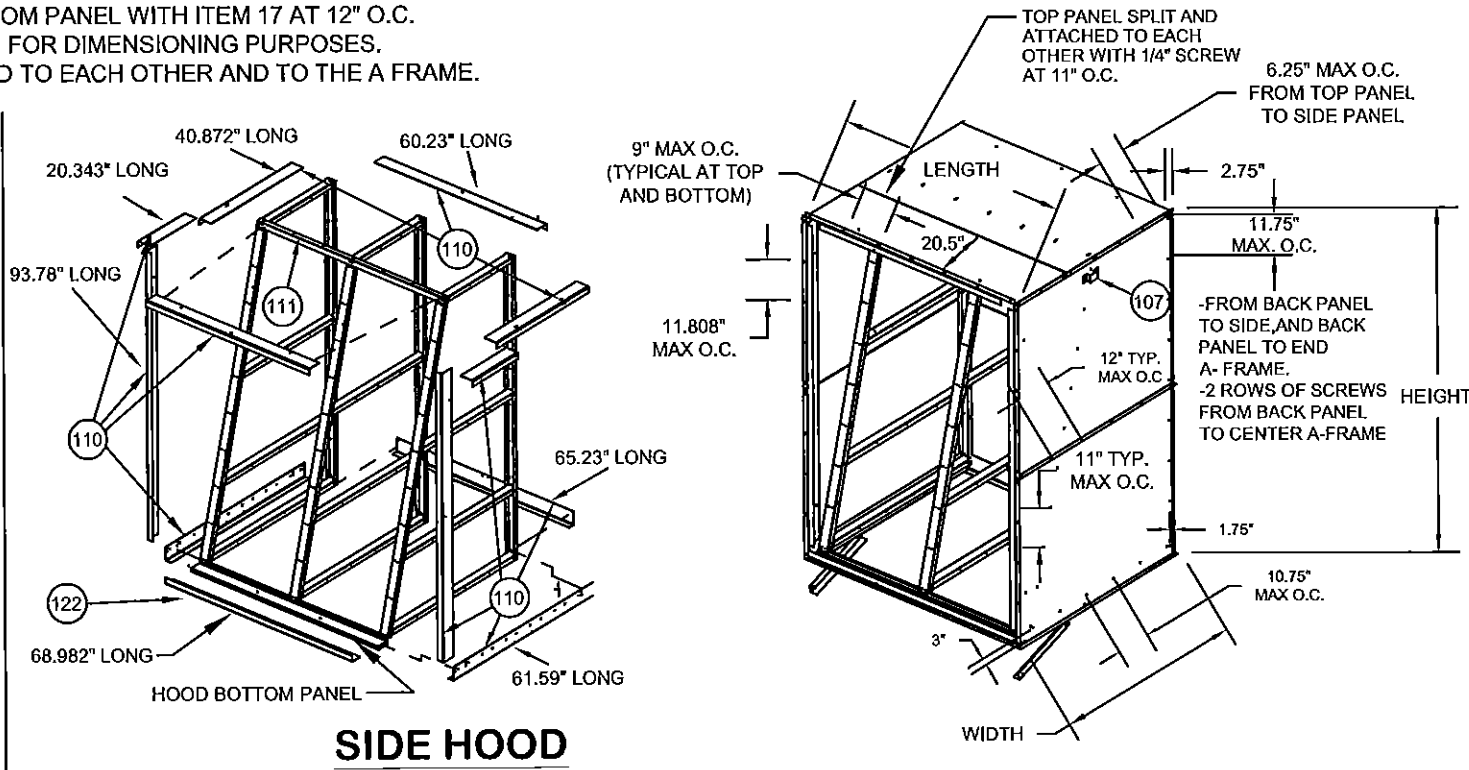
HOOD DESCRIPTION	LENGTH	WIDTH	HEIGHT
BACK/FRONT HOOD	167 1/4"	47 1/16"	83 1/2"
SIDE HOOD	62 15/16"	72 1/4"	101 3/4"



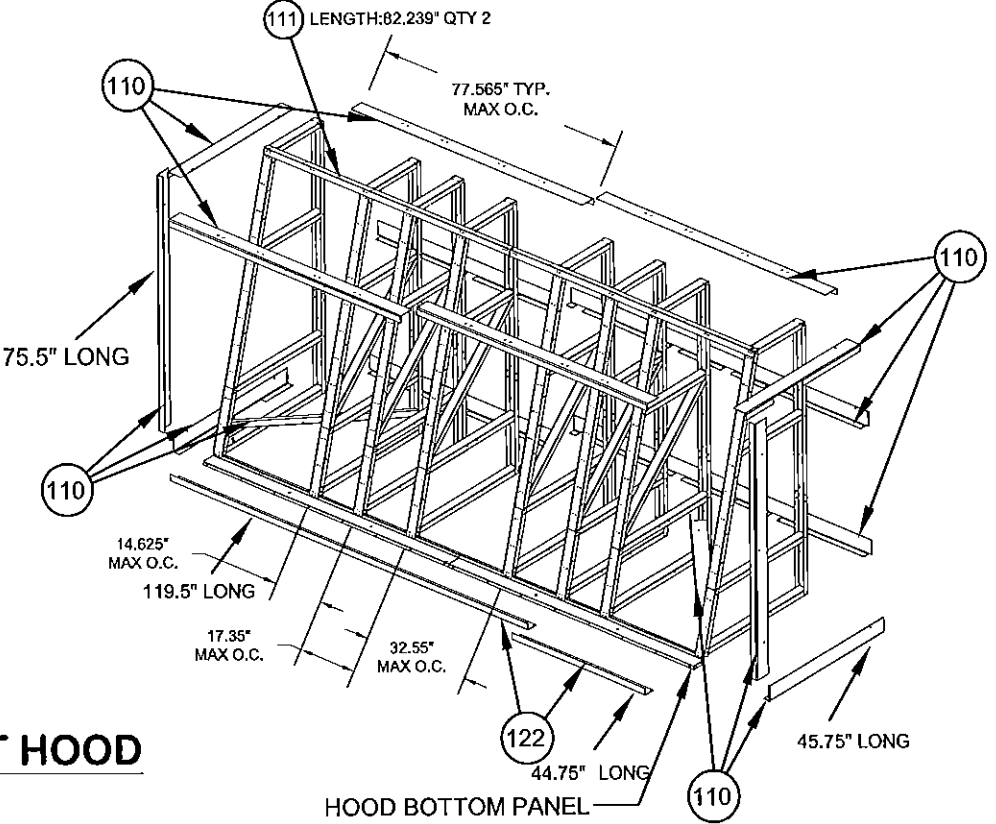
A FRAME ASSEMBLY DETAILS



BACK / FRONT HOOD



SIDE HOOD

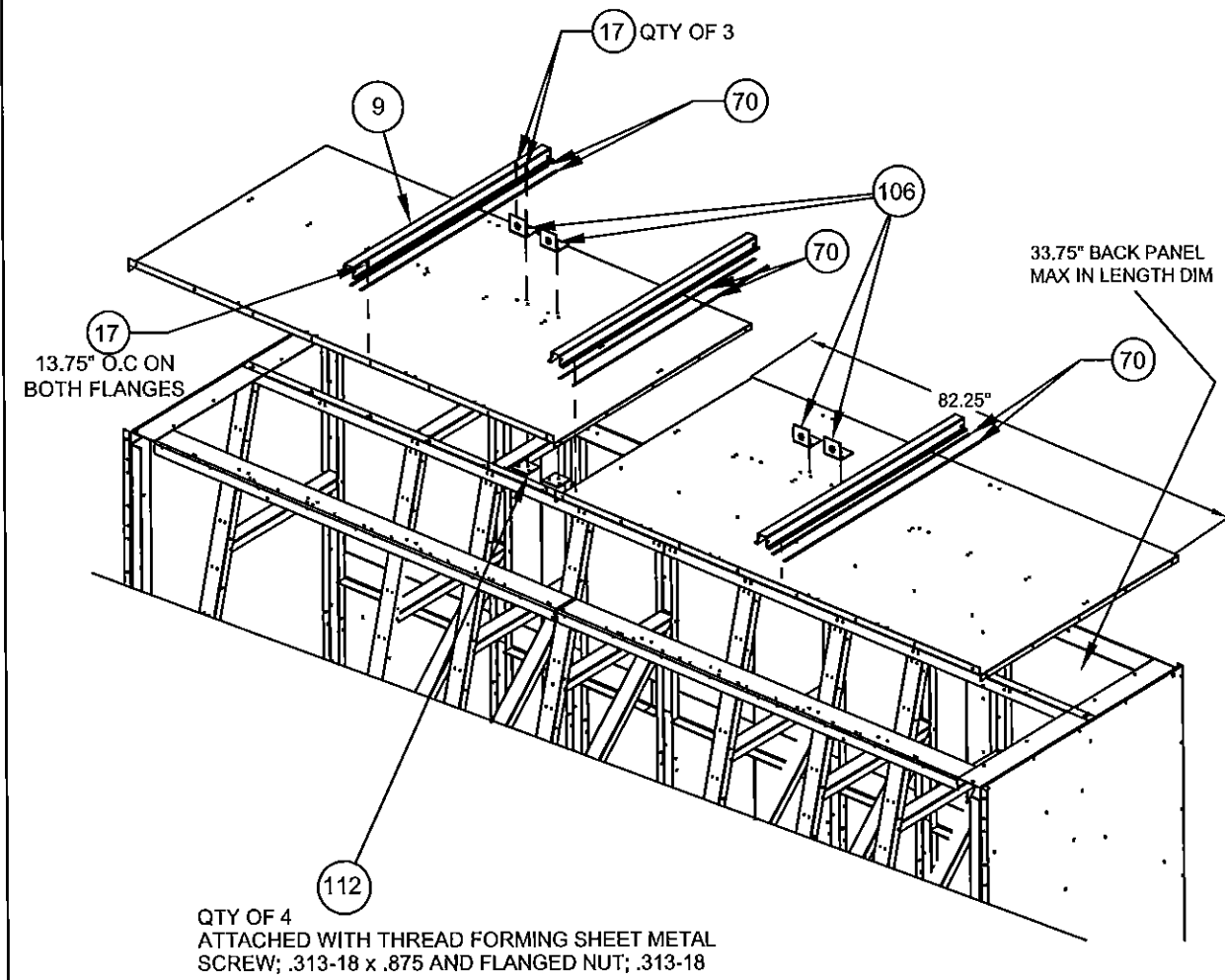


HOOD BOTTOM PANEL

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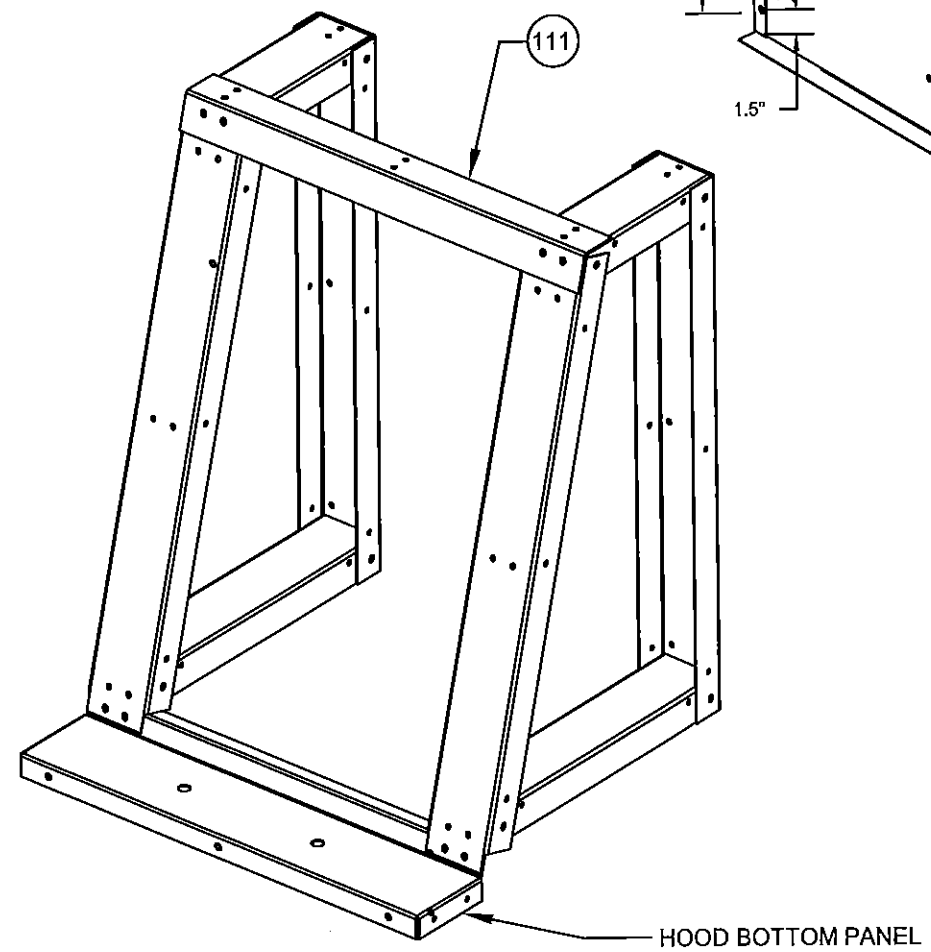
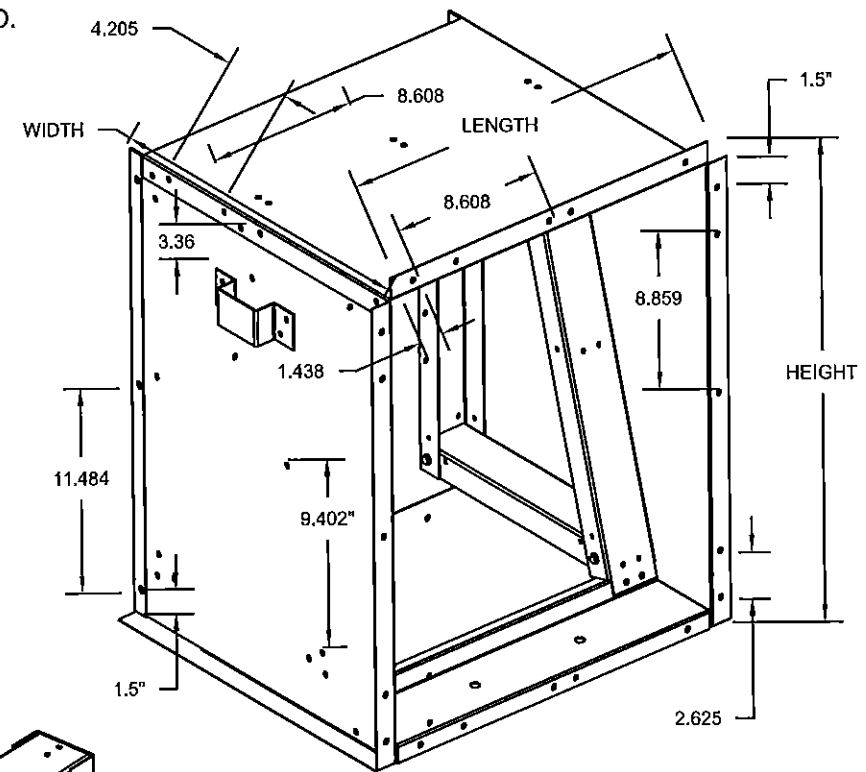
DETAIL A  
LIFTING LUG AND SUPPORT CHANNEL (HAT CHANNEL) INSTALLATION



HOOD DESCRIPTION	LENGTH	WIDTH	HEIGHT
GAS HEAT INLET HOOD	22.780"	19.646"	27.250"

# GAS HEAT INTAKE HOOD ASSEMBLY DETAILS (TESTED WITH SIZE 50)

- NOTES:
1. SKINS ARE ADHERED WITH STRUCTURAL GLUE.
  2. ALL METAL SKINS ARE ATTACHED WITH 1/4" SCREWS.
  3. ALL A-FRAME PARTS ARE ASSEMBLED WITH 1/4" SCREWS.
  4. NO BACKING PLATE REQUIRED WHEN INLET IS ATTACHED TO DOOR.
  5. NO ITEM 110 (L ANGLE) USED FOR THIS HOOD.

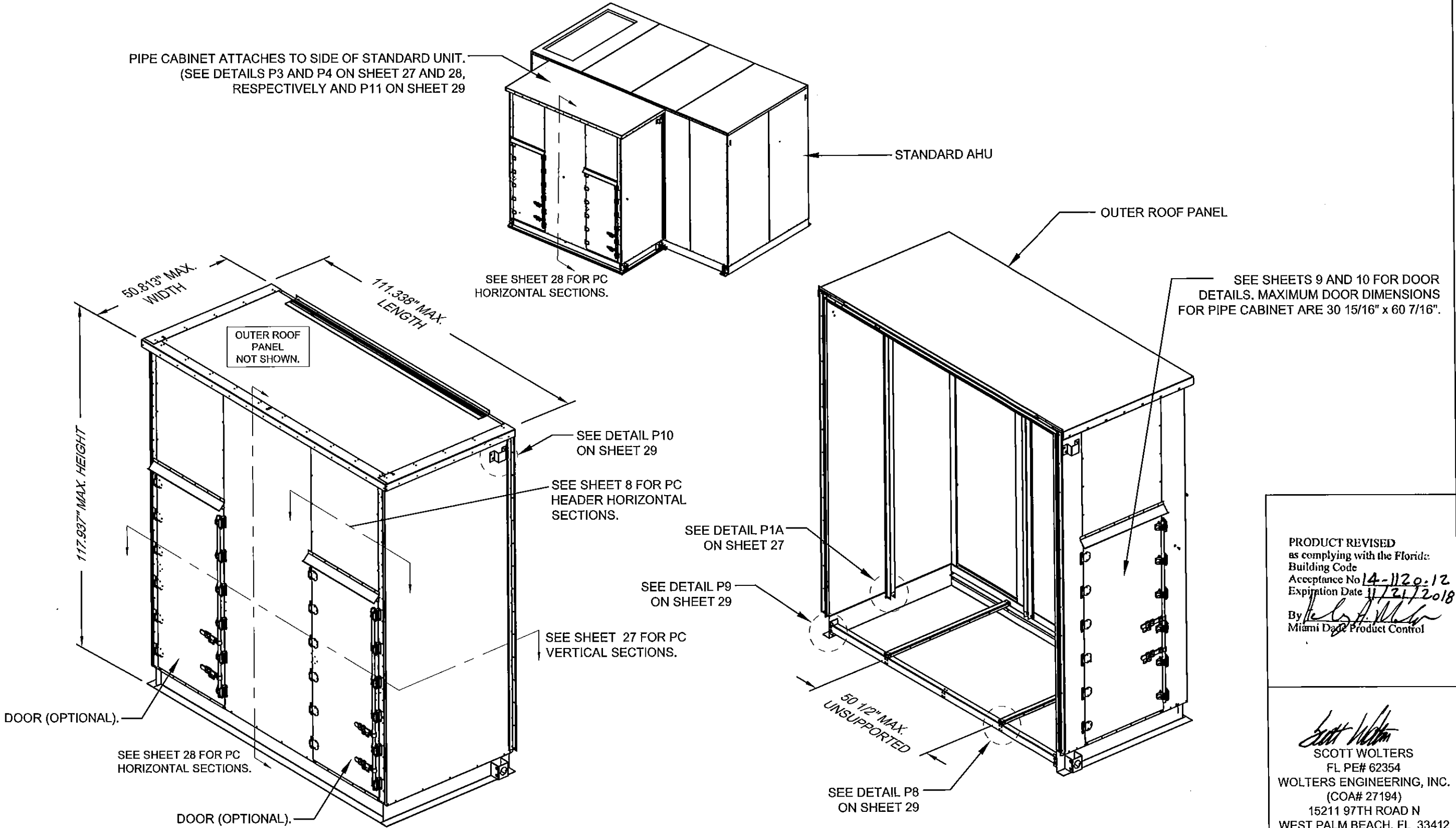


A FRAME ASSEMBLY

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PIPE CABINET

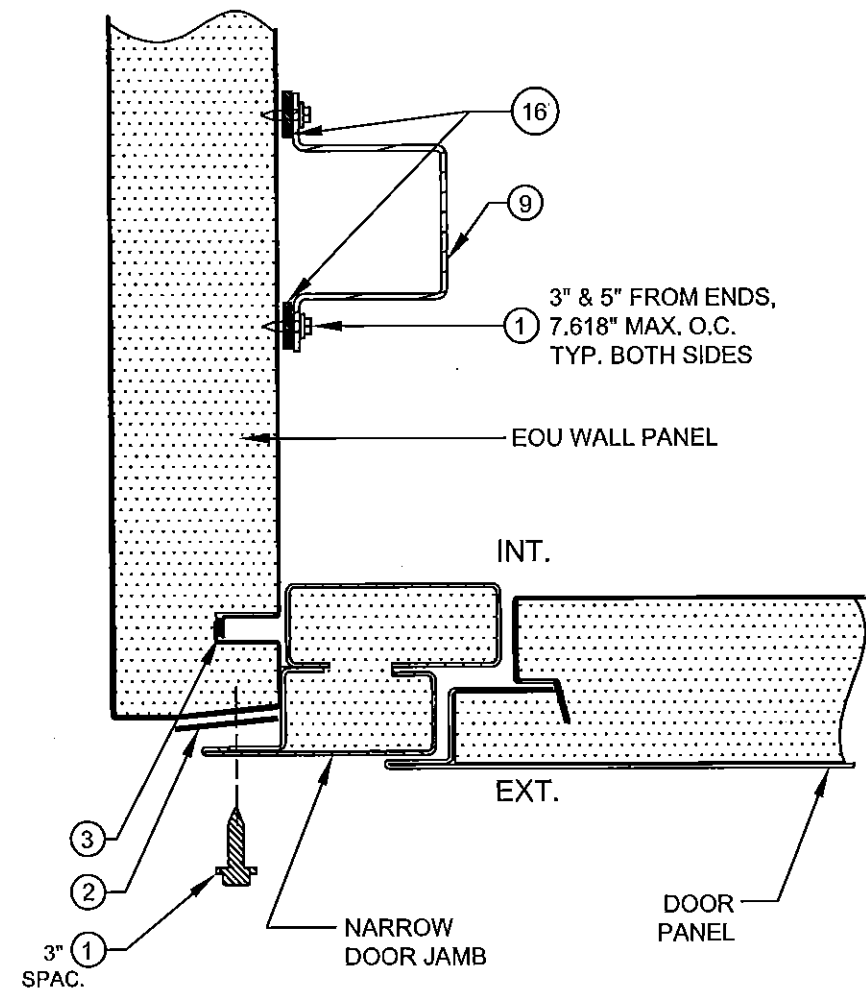


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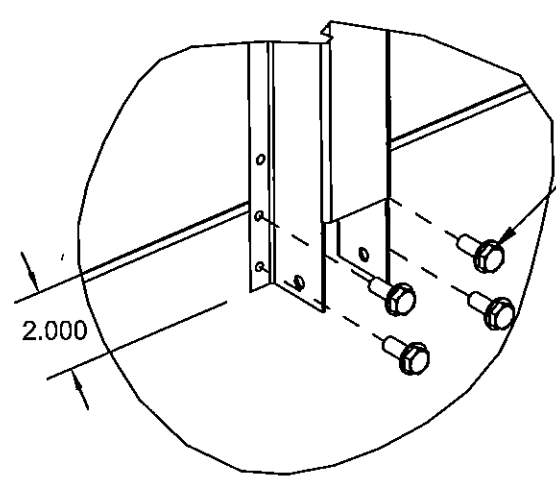
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FL PE# 62354  
WOLTERS ENGINEERING, INC.  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY *** MOCK UPDWG SHEET REF: 1, 2, 4, 5 OF 19		BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET 26 OF 41	SECTION			SCALE: <b>NTS</b>		DATE <b>10-SEP-2013</b>	

PIPE CABINET DETAILS

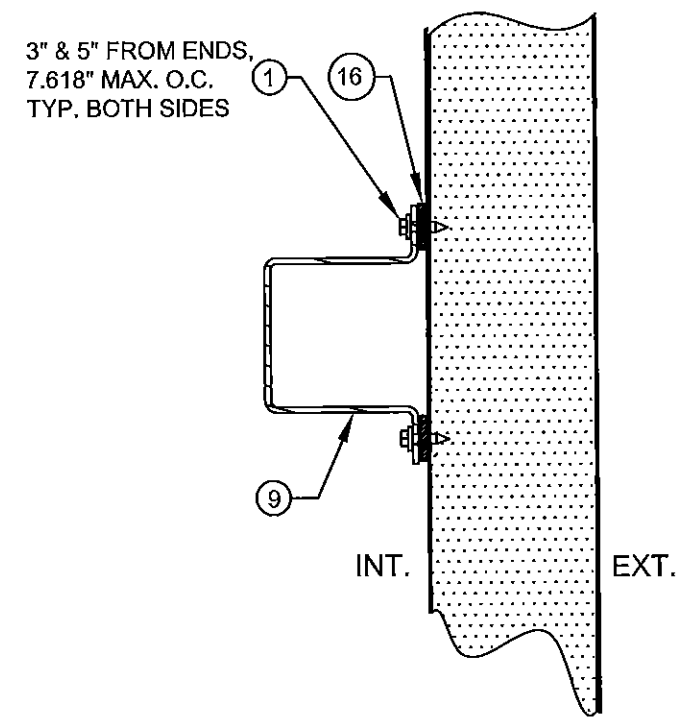


DETAIL P1. DOOR TO EOU

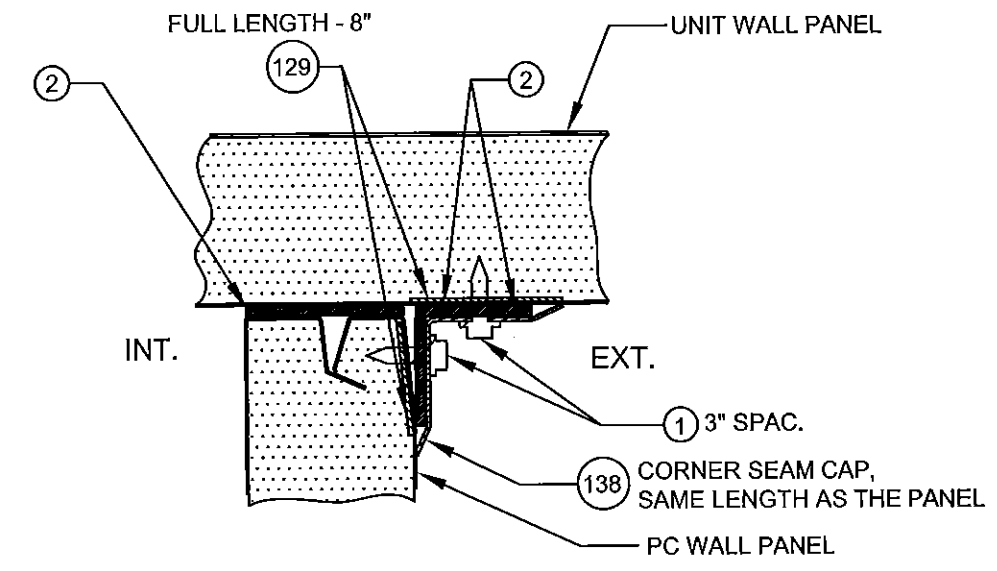


DETAIL P1A.  
(HAT CHANNEL ATTACHED TO BASE RAIL)

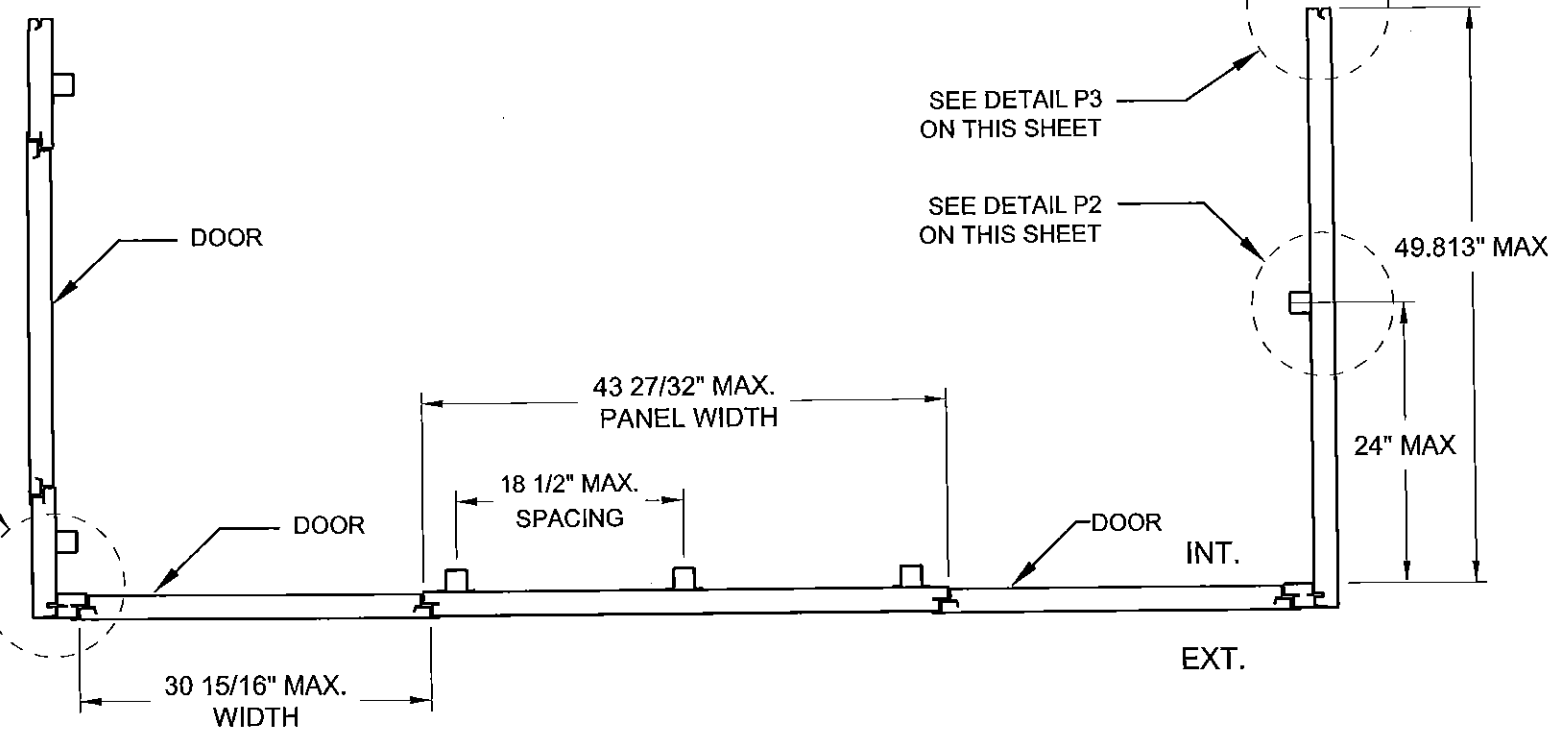
NOTES:  
1. DOORS ARE OPTIONAL.



DETAIL P2. HAT CHANNEL TO WALL



DETAIL P3. PC WALL TO UNIT WALL



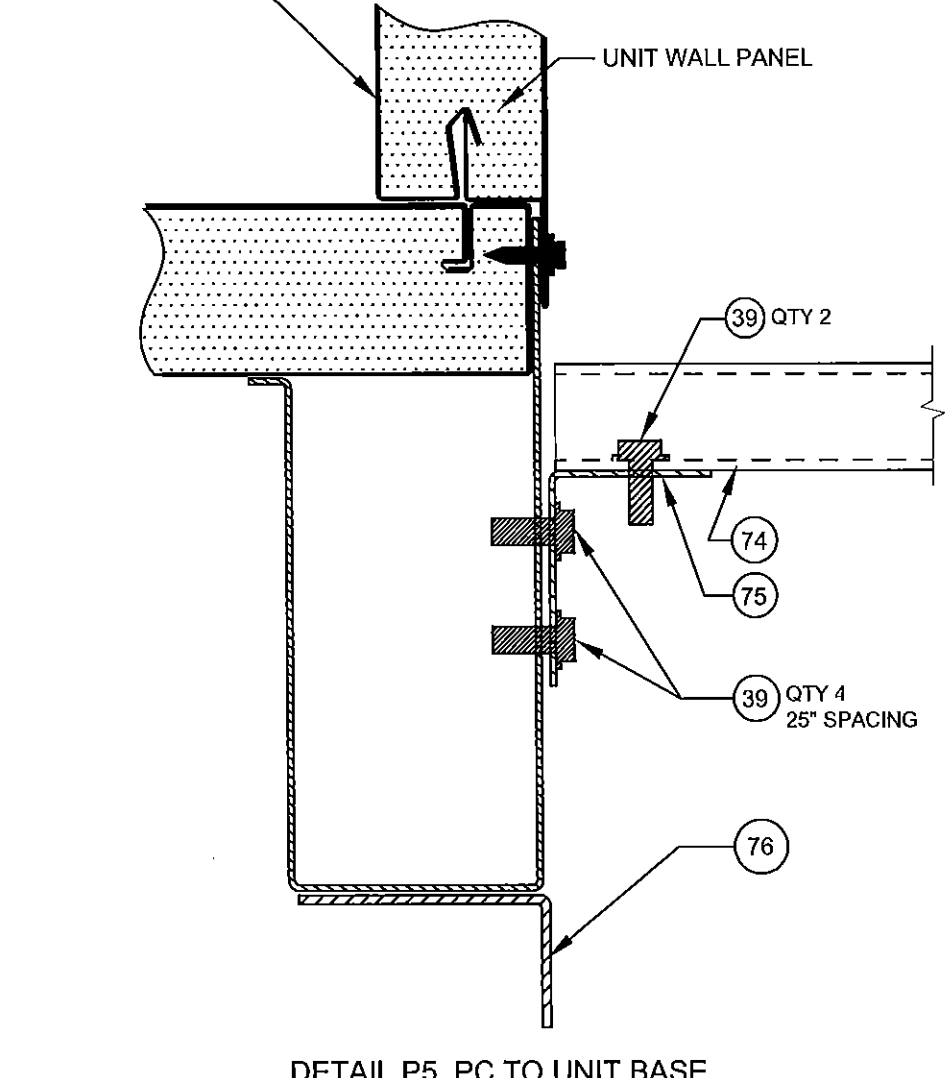
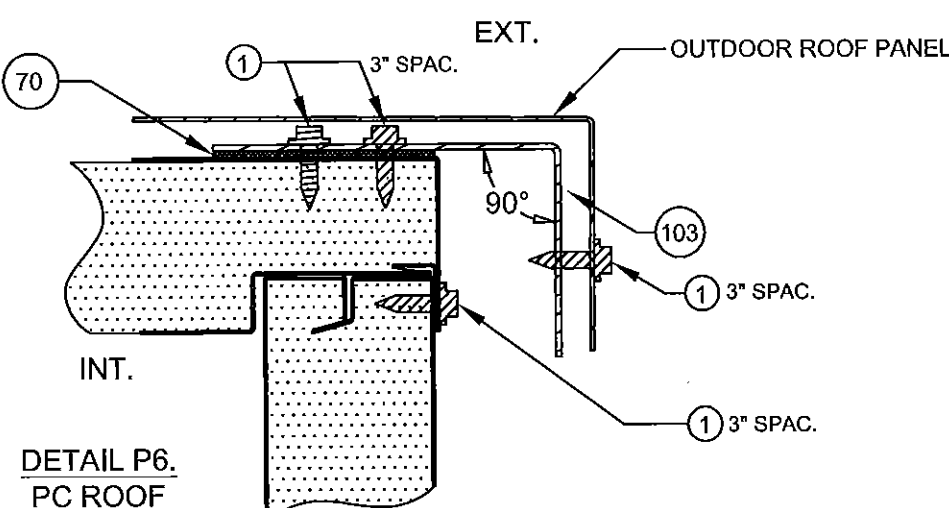
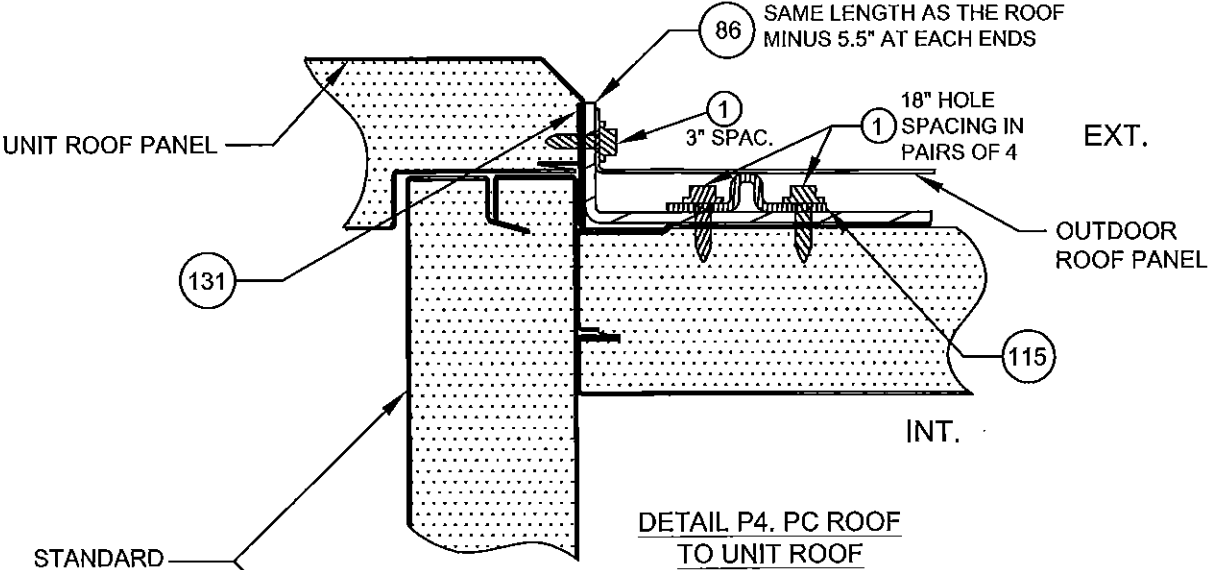
PC VERTICAL SECTIONS

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Expiration Date 11/21/2018  
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Mitsui Data Product Control

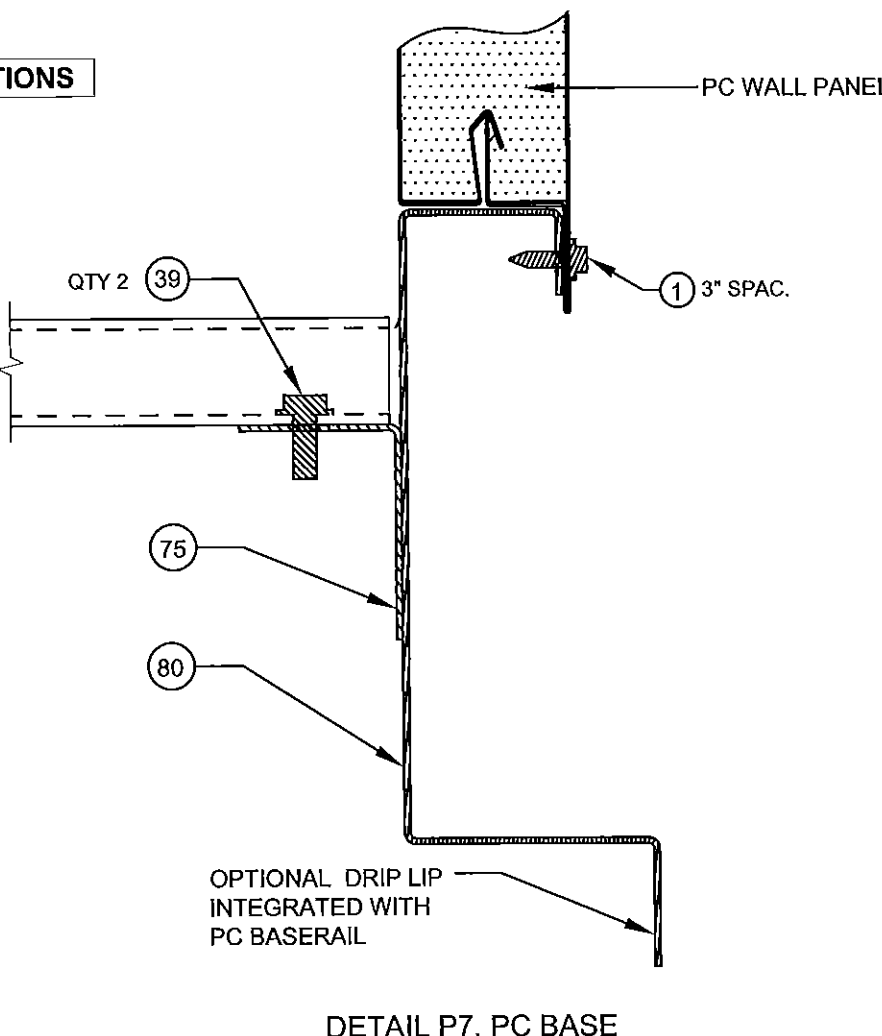
*[Signature]*  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>27 OF 41</b>	SECTION			MOCK UP DWG SHEET REF: <b>3, 7 OF 19</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

PIPE CABINET DETAILS



PC HORIZONTAL SECTIONS

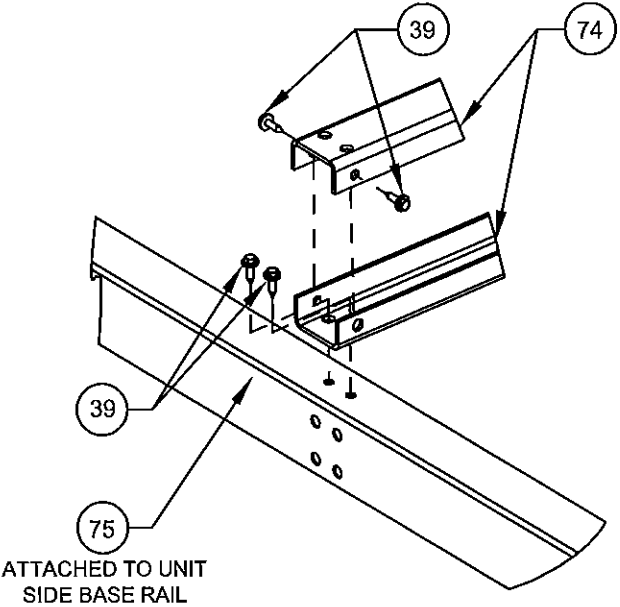


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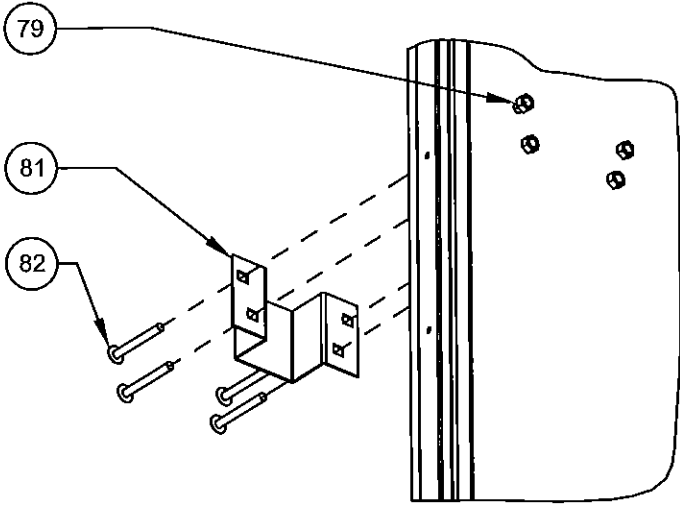
*[Signature]*  
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DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY --- MOCK UP DWG SHEET REF: 11, 12 OF 19		BY: K.YUVARAJA	REV. A
SHEET 28 OF 41	SECTION			SCALE: NTS		DATE 10-SEP-2013	

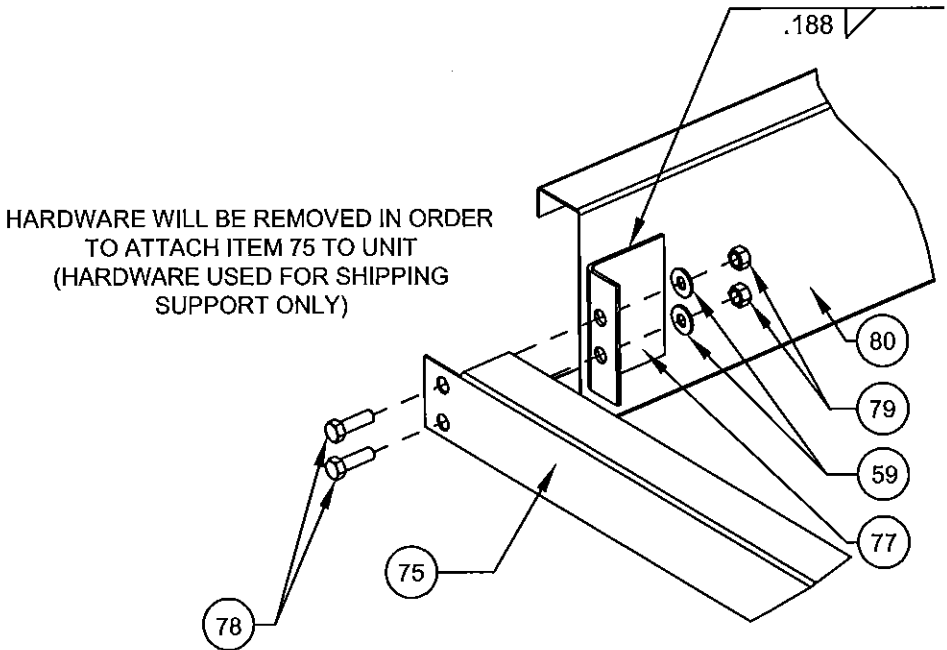
PIPE CABINET DETAILS



DETAIL P8. MULLION ASSEMBLY ATTACHMENT

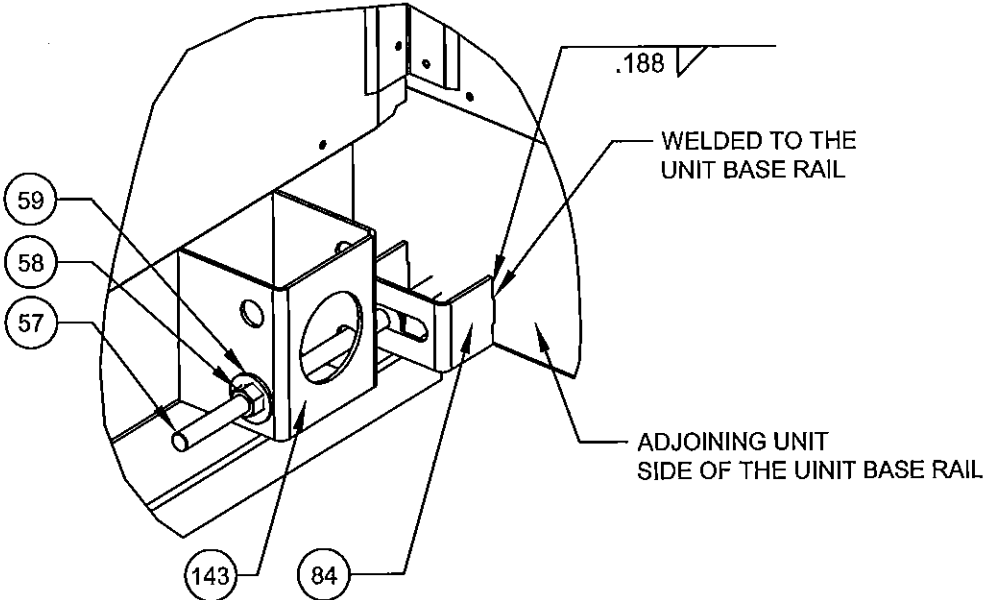


DETAIL P10. CHAIN GUIDE/GUARD ATTACHMENT



ITEM 78, 59, 79 AND 80 NOT USED WHEN PIPE CABINET INSTALLED TO THE UNIT

DETAIL P9. SHIPPING CORNER



DETAIL P11. LUG CONNECTION

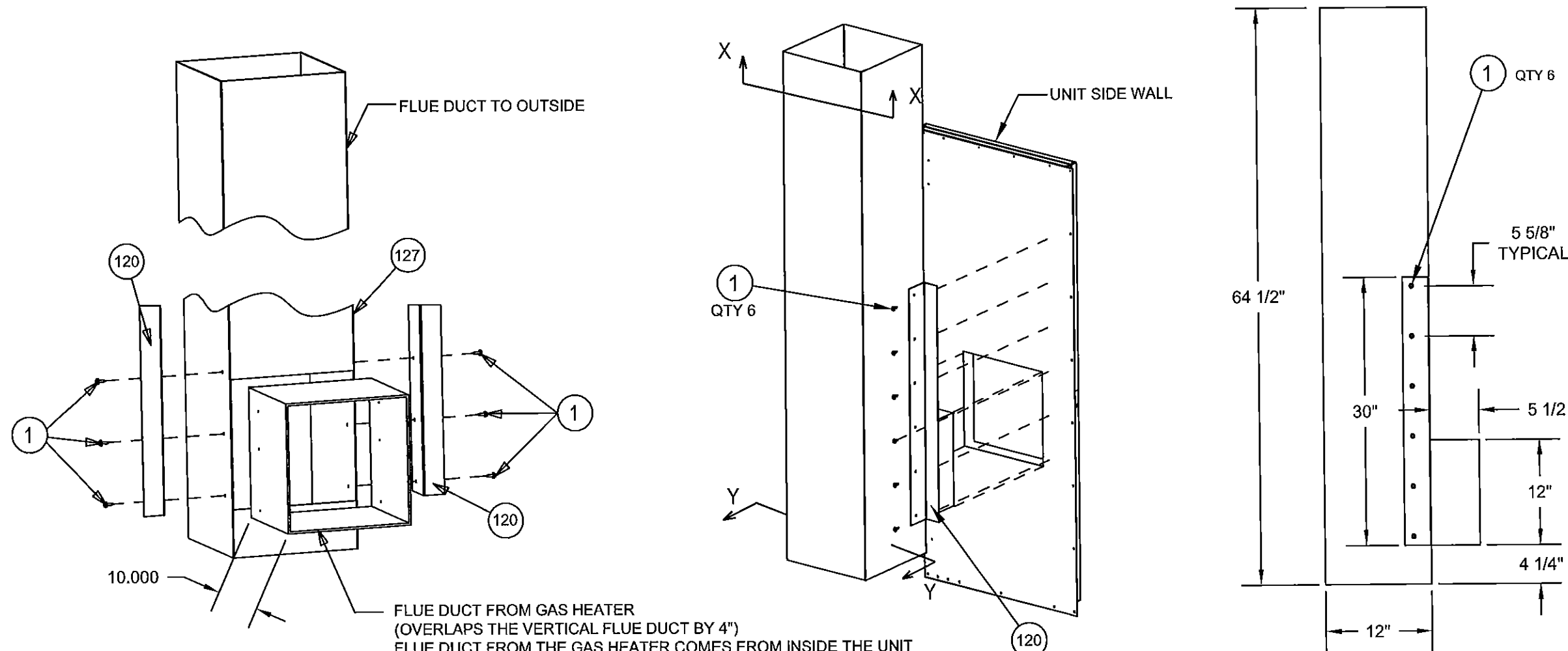
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-1120-12  
Expiration Date 11/21/2018  
By *[Signature]*  
Miami Data Product Control

*[Signature]*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

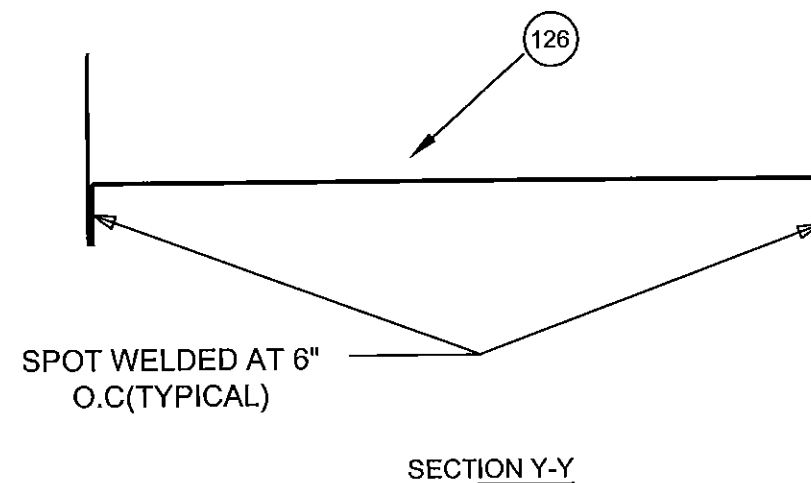
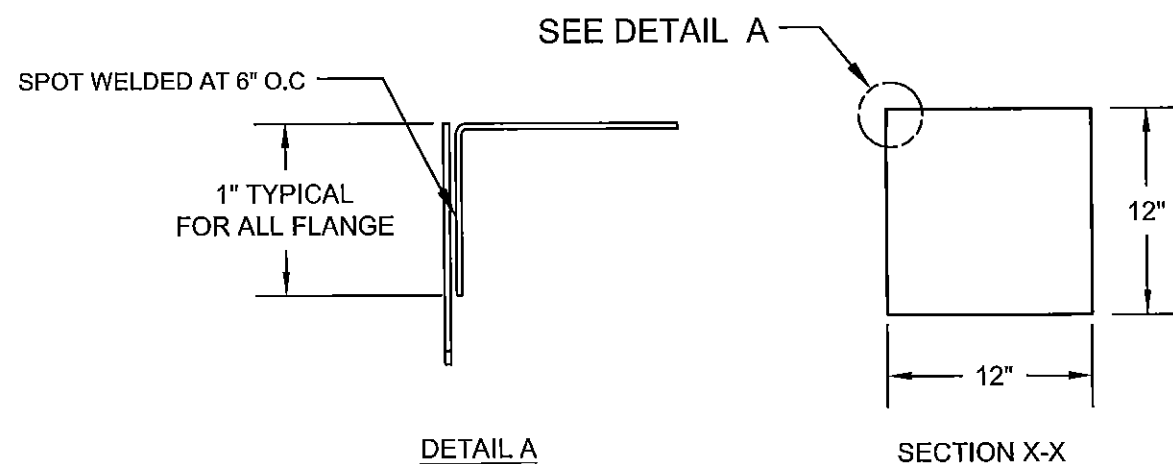
DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	29 OF 41	SECTION			MOCK UPDWG SHEET REF:	3, 6 OF 19	SCALE:	NTS	DATE	10-SEP-2013



**GAS HEAT FLUE DUCT DETAILS**  
(TESTED WITH SIZE 50)



FLUE DUCT FROM GAS HEATER  
(OVERLAPS THE VERTICAL FLUE DUCT BY 4")  
FLUE DUCT FROM THE GAS HEATER COMES FROM INSIDE THE UNIT  
AND IT IS ATTACHED TO THE VERTICAL FLUE DUCT. ITEM 120  
ATTACHED TO THE FLUE DUCT AND THE UNIT SIDE WALL.

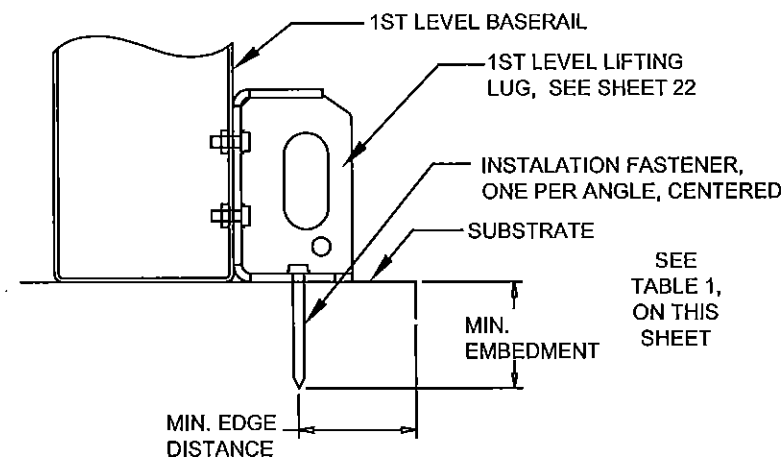


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Expiration Date 11/21/2018  
By *Scott Wolters*  
Miami Dade Product Control

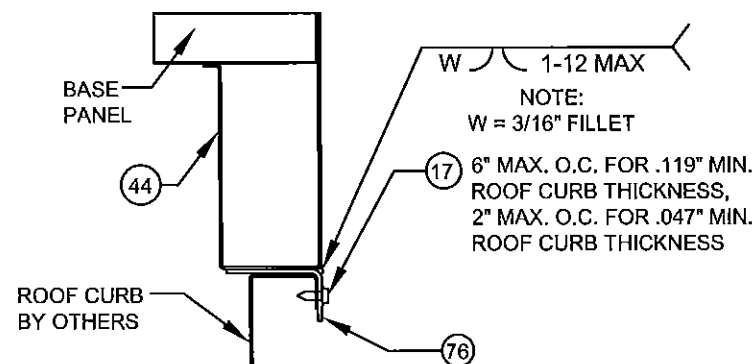
*Scott Wolters*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	BY: K.YUVARAJA	REV. A
SHEET	30 OF 41	SECTION			MOCK UP DWG SHEET REF: 21 OF 63 50 STACK DWG	SCALE: NTS	DATE 10-SEP-2013

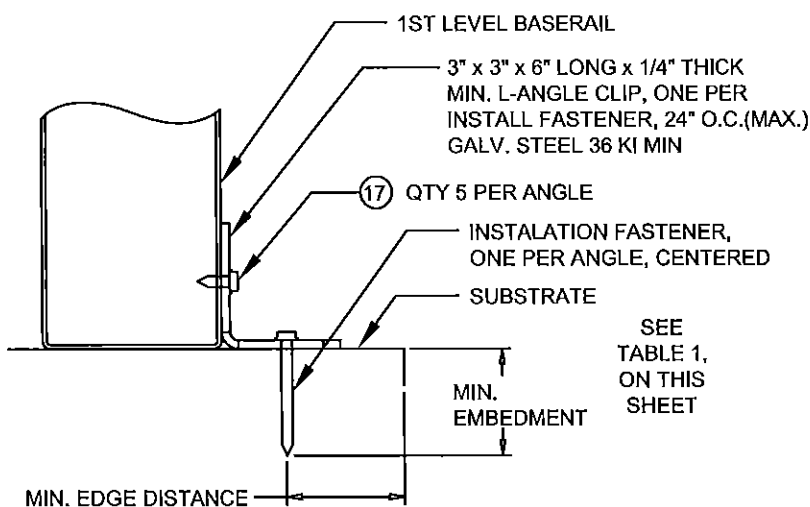
NOTE:  
1. UNIT MAY BE INSTALLED ONTO CONCRETE (3.2 KSI MIN. COMPRESSIVE STRENGTH) OR 1/4" THICK STEEL (36 KSI MIN YIELD) SUBSTRATES WITH ANCHORS THROUGH LIFTING LUGS AND ANGLE CLIPS ATTACHED TO FIRST LEVEL BASE RAIL AS SHOWN IN THIS SHEET. UNIT MAY ALSO BE INSTALLED ONTO A 36KSI YIELD STEEL CURB BY OTHERS, WITH ITEM 17 SMS AS SHOWN IN DETAIL B. FOR PIPE CABINET ANCHORAGE SEE DETAILS P12 AND P13.



DETAIL A. TYPICAL ANCHORAGE AT LUGS



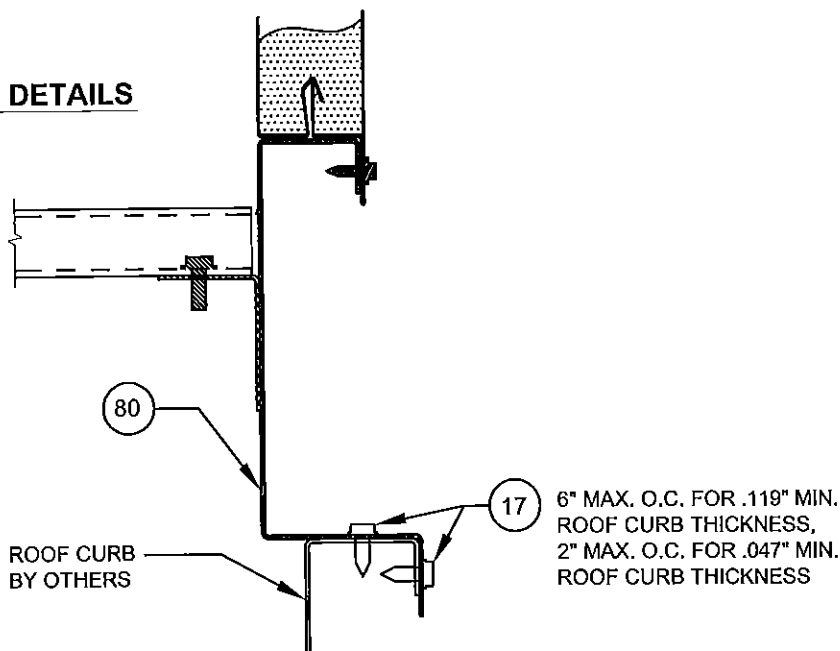
DETAIL B. TYPICAL INSTALLATION BASE RAIL TO CURB



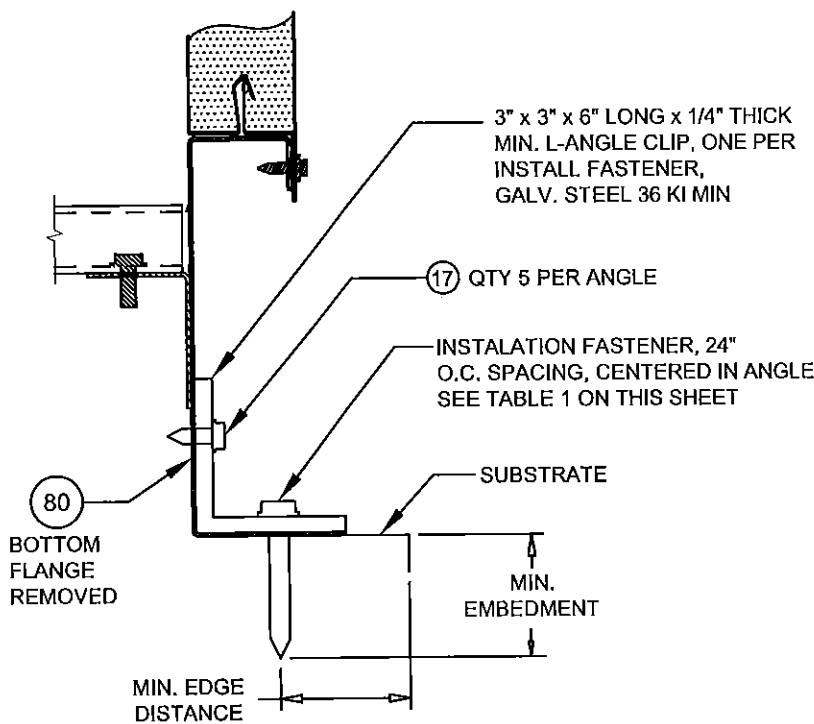
DETAIL C: TYPICAL ANCHORAGE AT ANGLE CLIPS

ANCHORAGE DETAILS

PIPE CABINET ANCHORAGE DETAILS



DETAIL P12. ANCHORAGE TO ROOF CURB



DETAIL P13. DIRECT ANCHORAGE TO SUBSTRATE

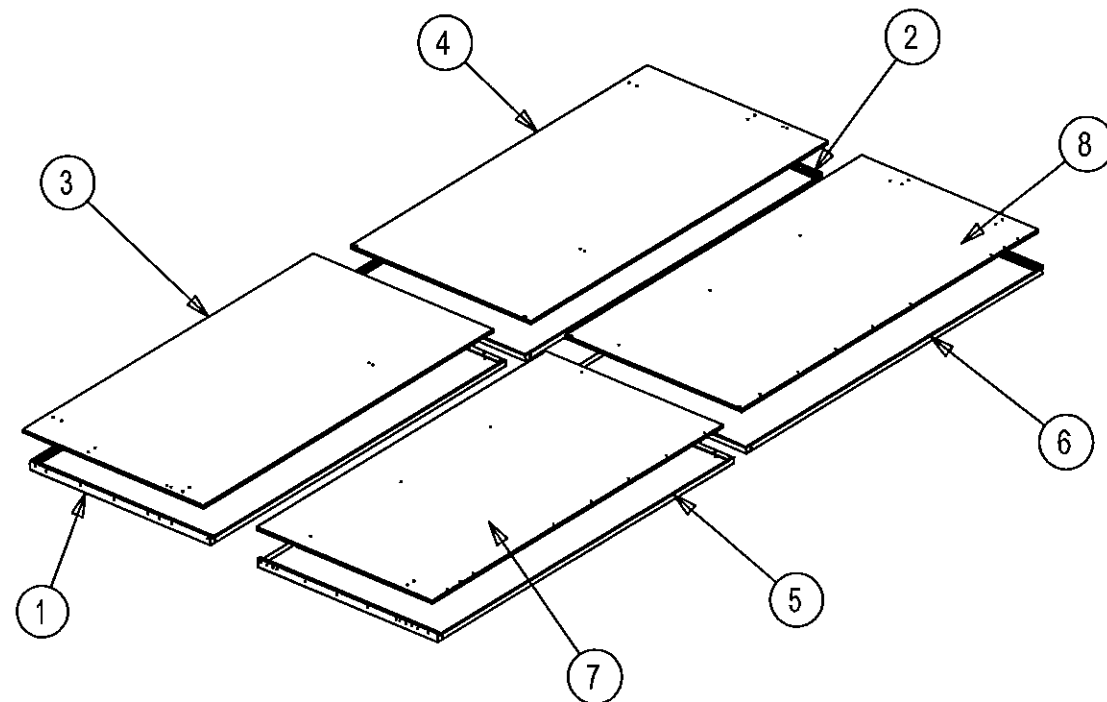
TABLE 1. INSTALLATION ANCHOR INFORMATION

ANCHOR / SUBSTRATE	MIN. EMBED.	MIN. EDGE DIST.
1/2" POWERS CHEM- STUD THREADED ROD INSTALLED WITH CHEM-STUD ADHESIVE CAPSULE IN 3.2 KSI MIN CONCRETE SUBSTRATE	1 1/2"	6"
1/2" HH. F-TYPE THREAD CUTTING SCREW INSTALLED IN 36 KSI MIN STEEL 1/4" THICK MIN. (FULL THREAD ENGAGEMENT)	1/4"	1 1/4"

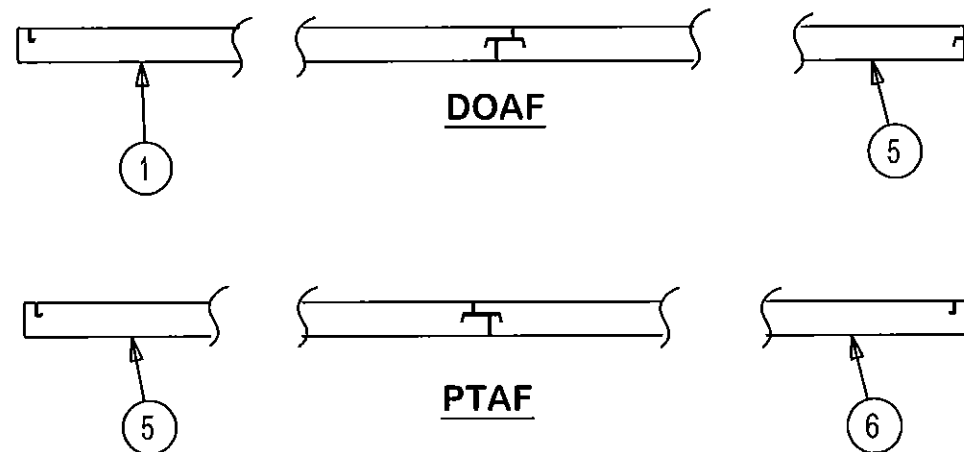
PRODUCT REVISED  
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Acceptance No 14-1120-12  
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By *[Signature]*  
Miami Dade Product Control

*[Signature]*  
SCOTT WOLTERS  
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15211 97TH ROAD N  
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PH/FX: (561) 225-1982  
SEP 10 2013

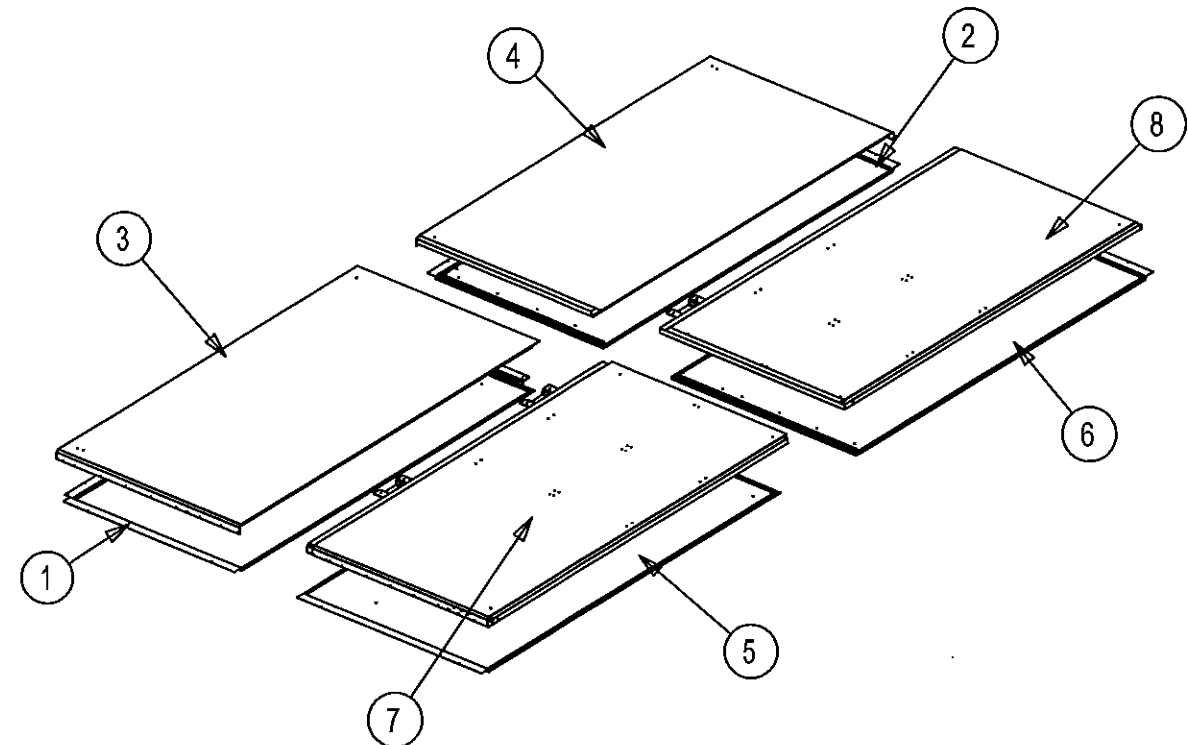
**BASE PANEL**



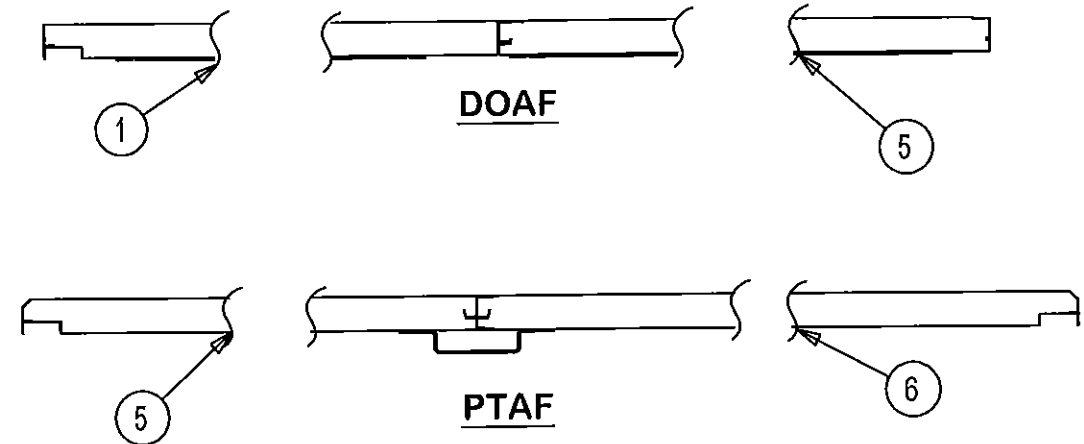
SEE DETAILS ON PAGE 33



**ROOF PANEL**



SEE DETAILS ON PAGE 34

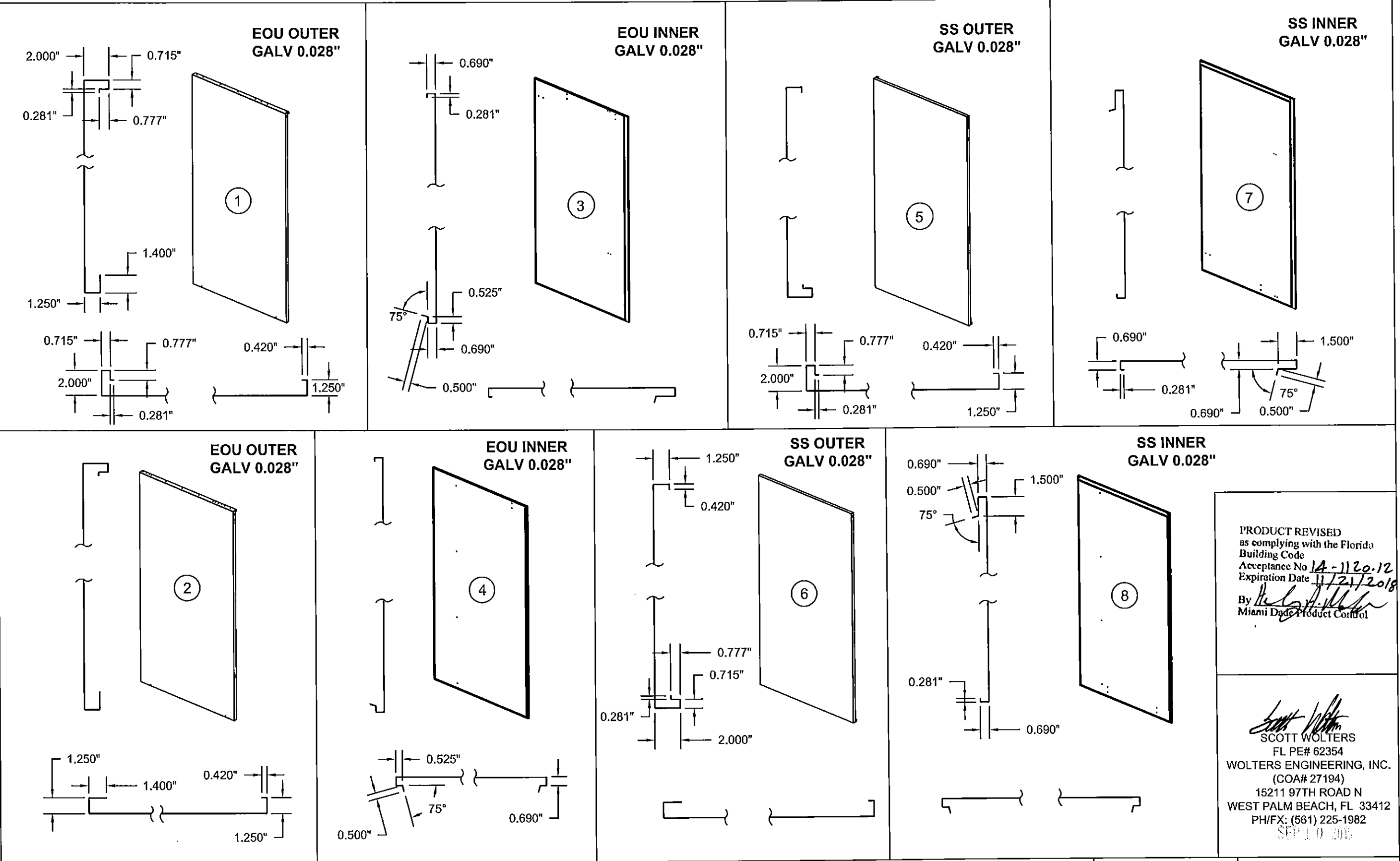


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*[Signature]*  
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SEP 10 2013

DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>32 OF 41</b>	SECTION			MOCK UPDWG SHEET REF: <b>40 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

BASE PANEL DETAIL

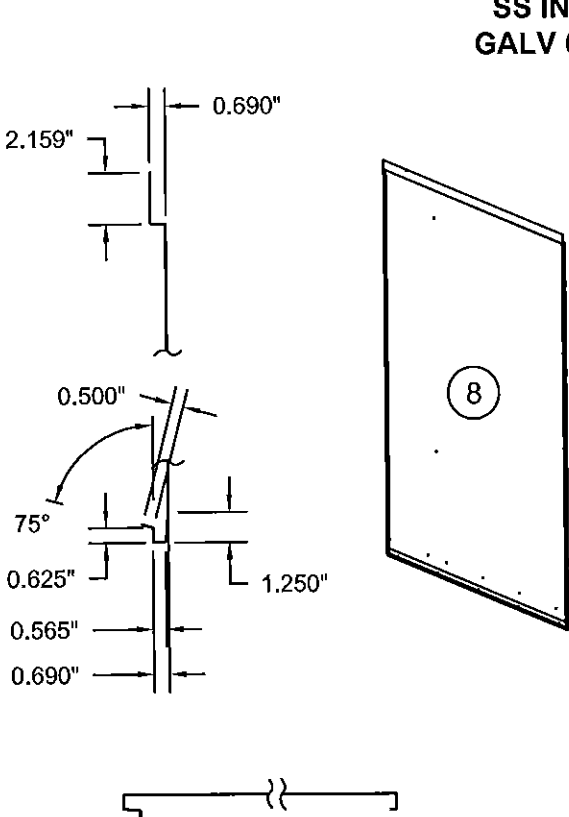
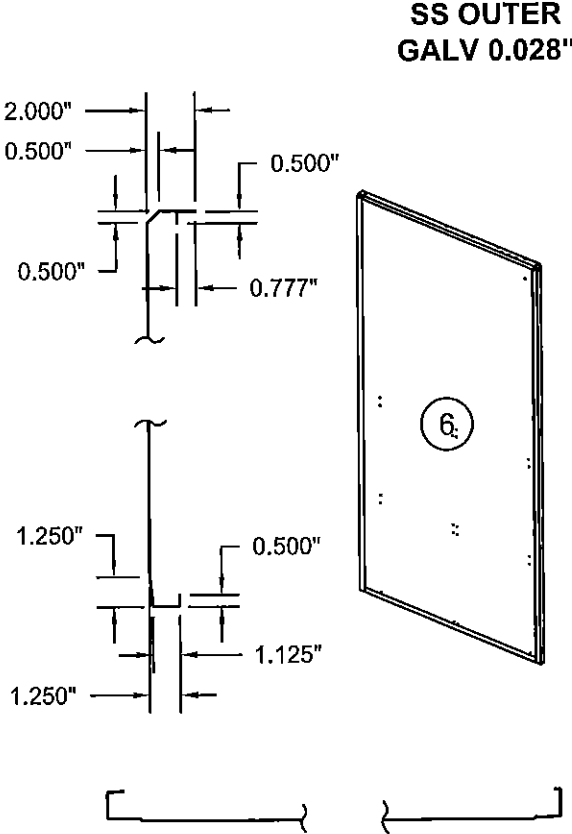
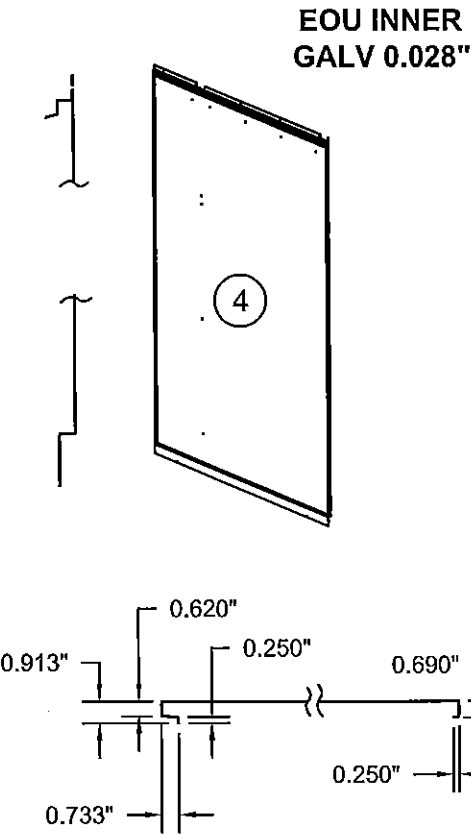
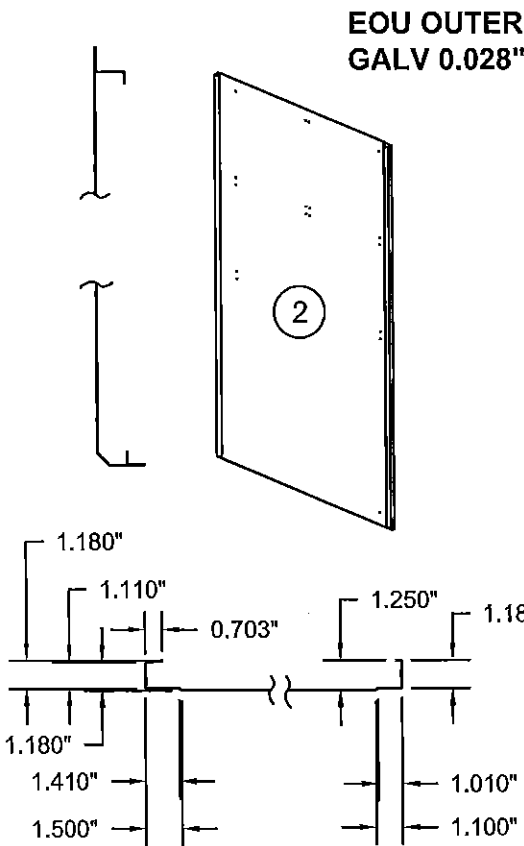
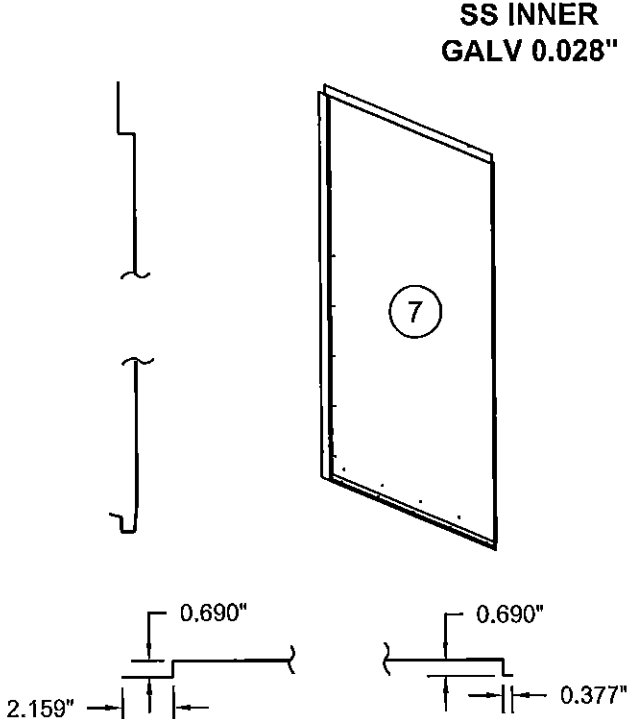
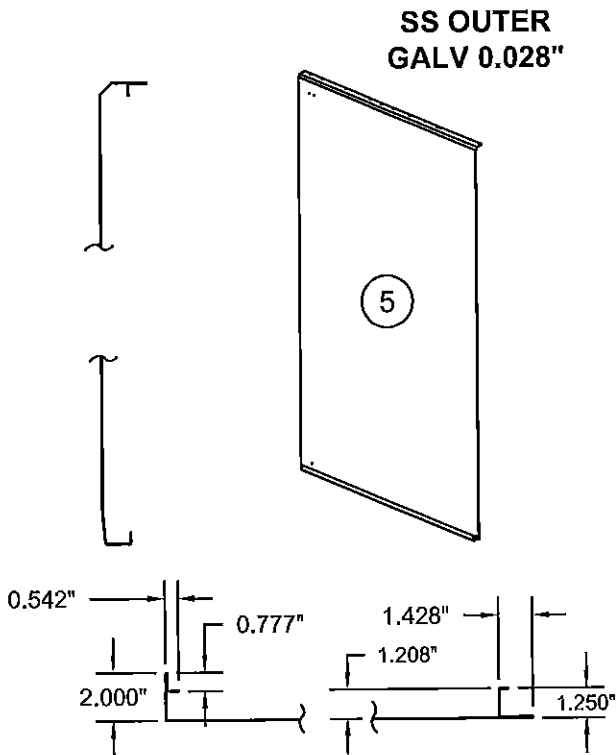
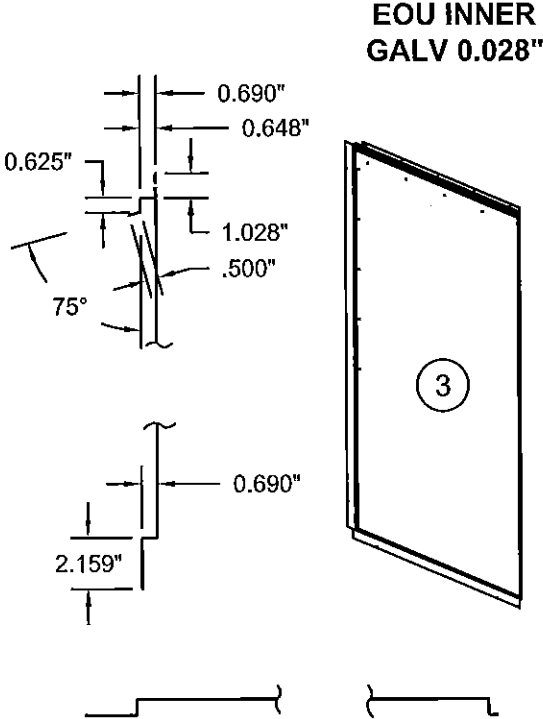
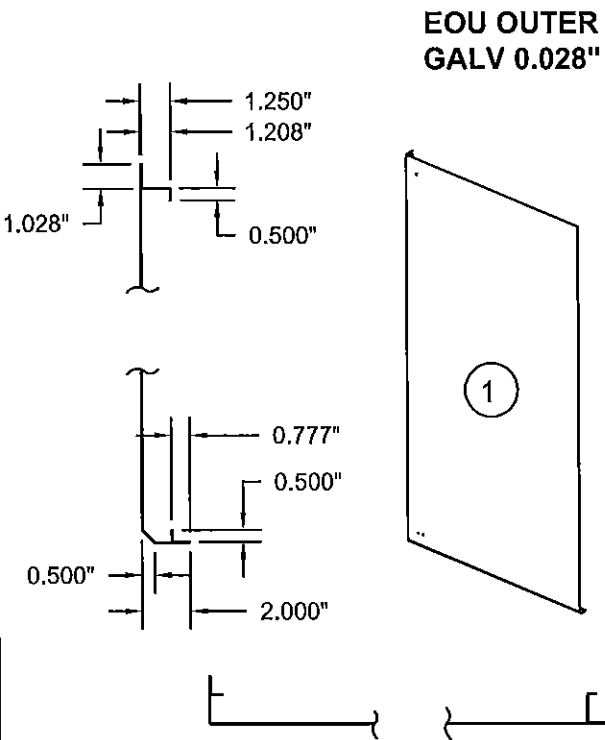


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Expiration Date 11/21/2018  
By *[Signature]*  
Miami Dade Product Control

*[Signature]*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>33 OF 41</b>	SECTION			MOCK UP DWG SHEET REF: <b>41 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

ROOF PANEL DETAIL



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*[Signature]*  
SCOTT WOLTERS  
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WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING #  
**AIRS0704**

SHEET  
34 OF 41

SECTION

DESC.  
**TRANE PERFORMANCE CLIMATE CHANGER  
AIR HANDLER - SIZE 120 UNSTACKED UNIT**

**TRANE**  
US Inc.

REV. HISTORY  
---

MOCK UP DWG  
SHEET REF: 42 OF 50

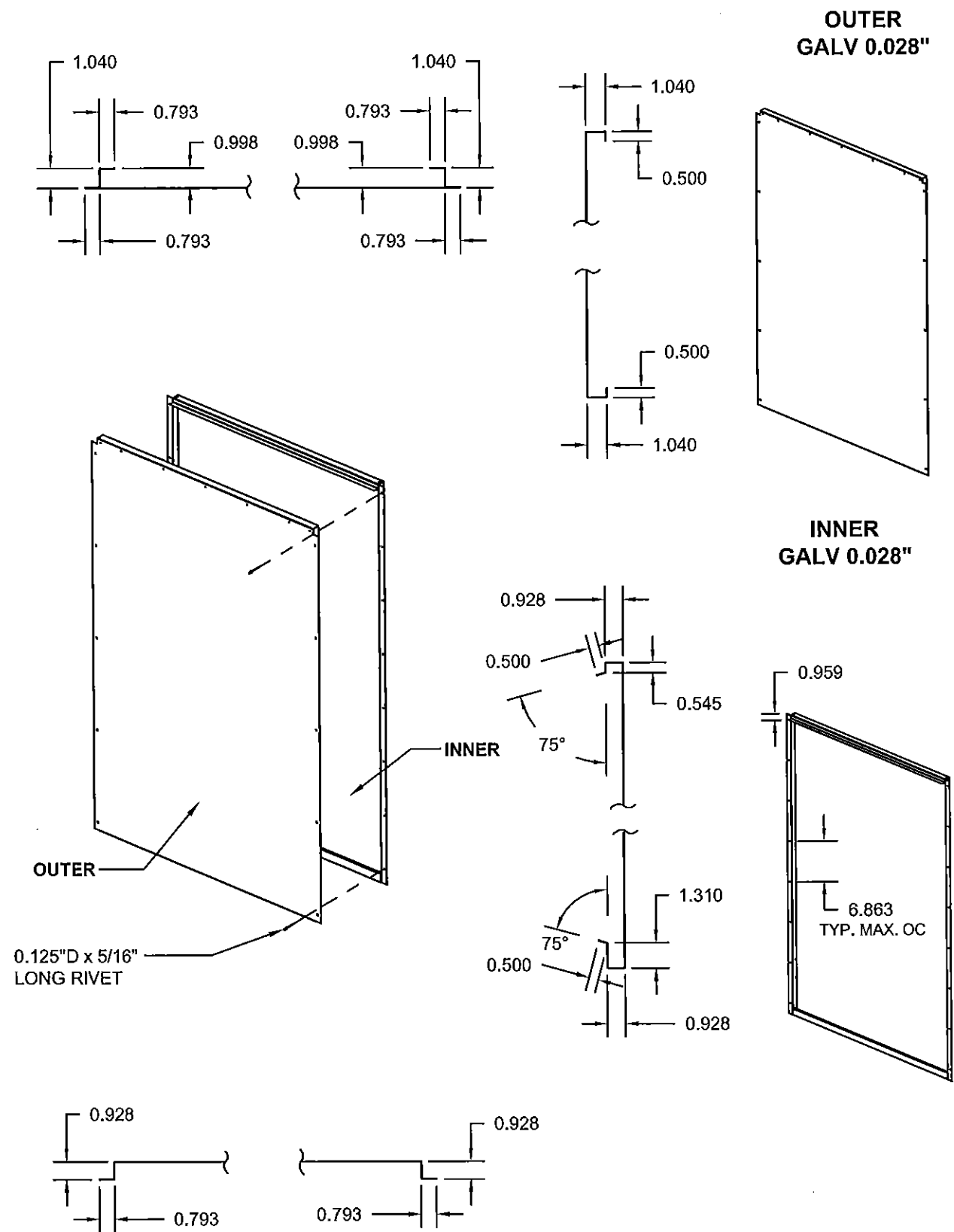
BY: **K.YUVARAJA**

SCALE: **NTS**

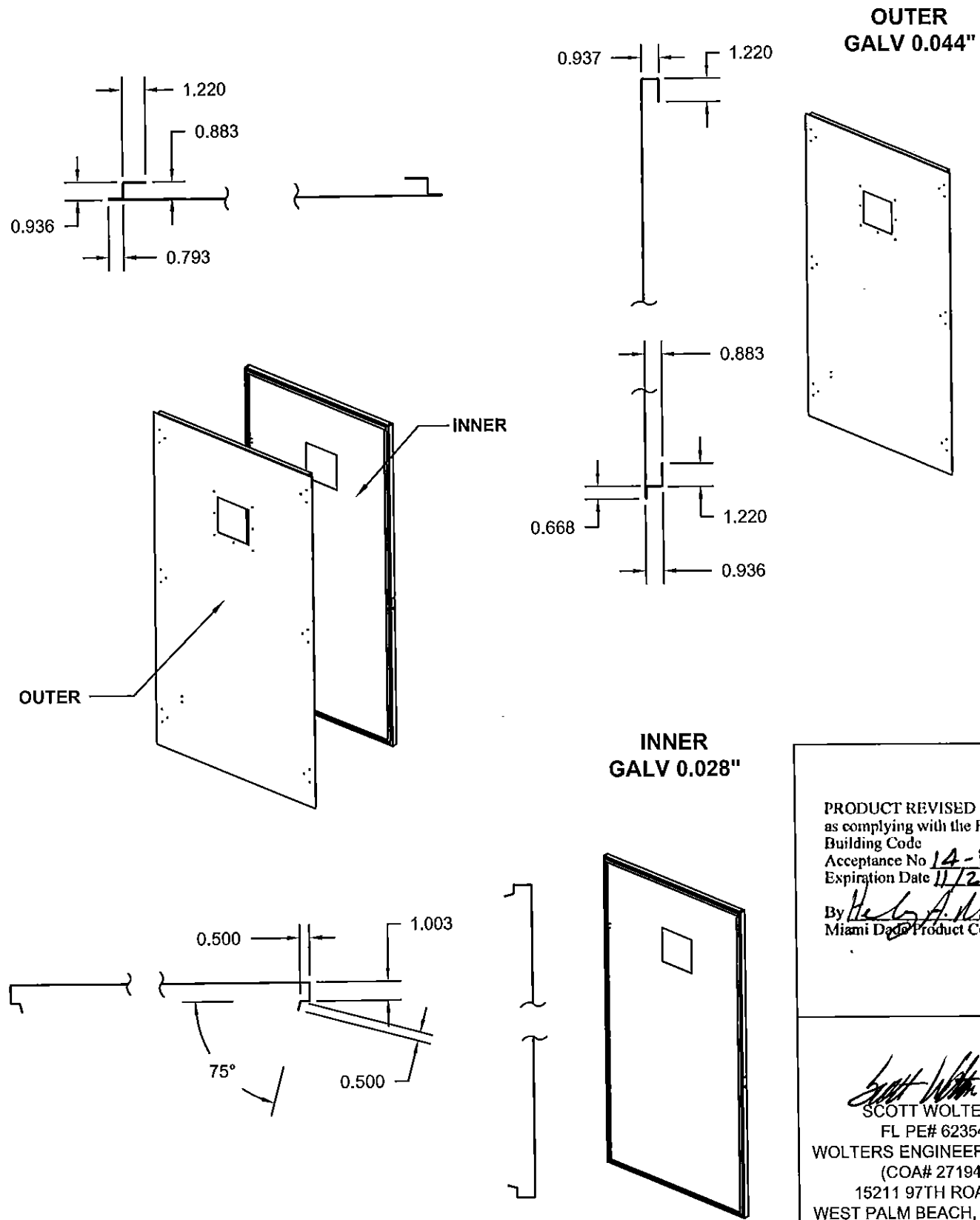
REV. **A**

DATE **10-SEP-2013**

TALL, DOOR HEADER DETAIL



DOOR DETAIL



OUTER  
GALV 0.044"

INNER  
GALV 0.028"

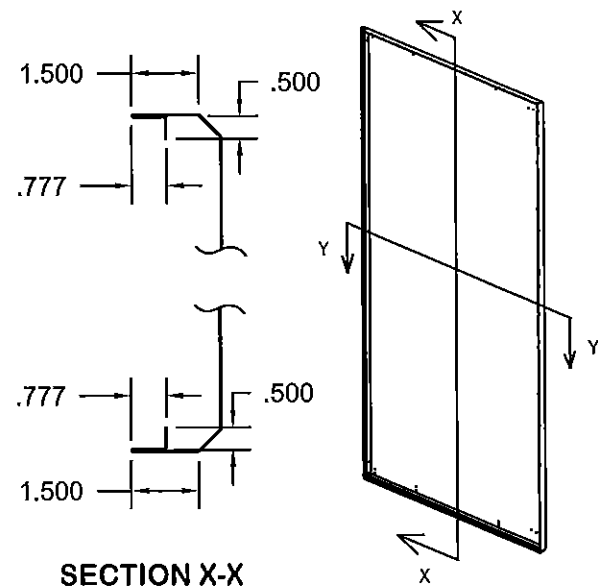
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-1120-12  
Expiration Date 11/21/2018  
By *Heidi A. Miller*  
Miami Dade Product Control

*Scott Wolters*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
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15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

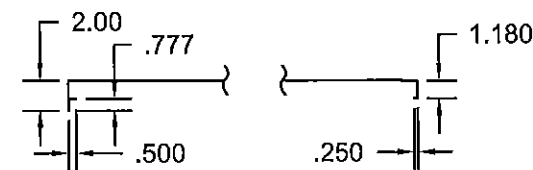
DRAWING # <b>AIRS0704</b>		DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET <b>35 OF 41</b>	SECTION			MOCK UP DWG SHEET REF: <b>43 OF 50</b>	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

# DETAIL OF P.C ROOF

OUTER  
GALV 0.028

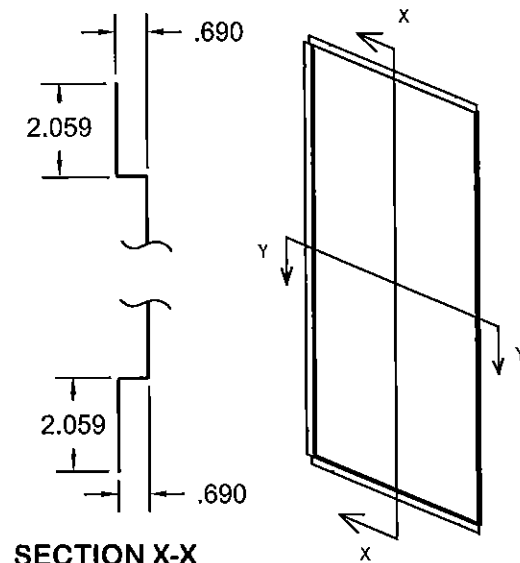


SECTION X-X

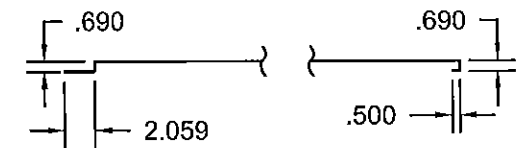


SECTION Y-Y

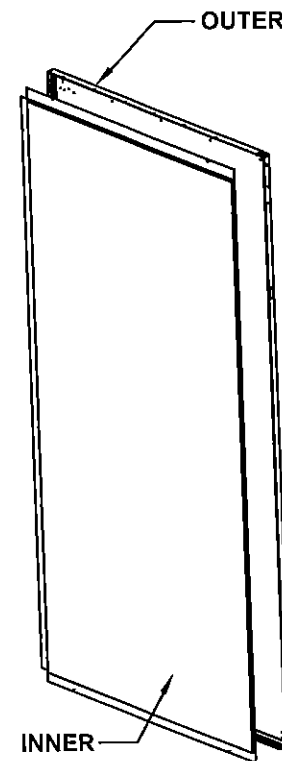
INNER  
GALV 0.028



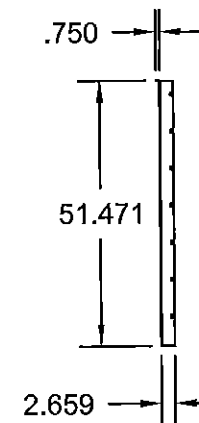
SECTION X-X



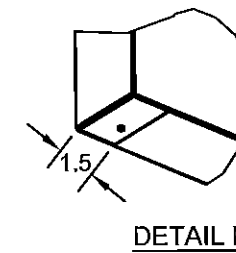
SECTION Y-Y



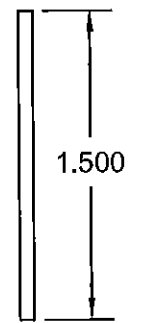
P.C OUTER ROOF  
GALV 0.043



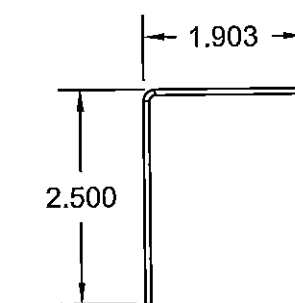
SEE DETAIL N



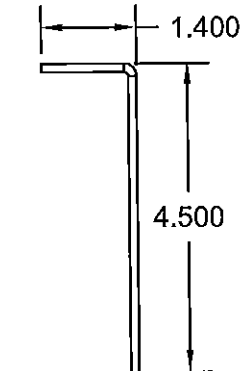
DETAIL N



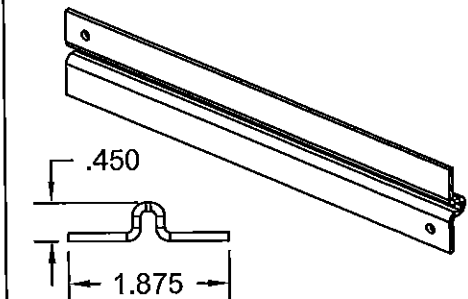
129. WALL PANEL  
BACKING PLATE  
(P.C) STEEL .043



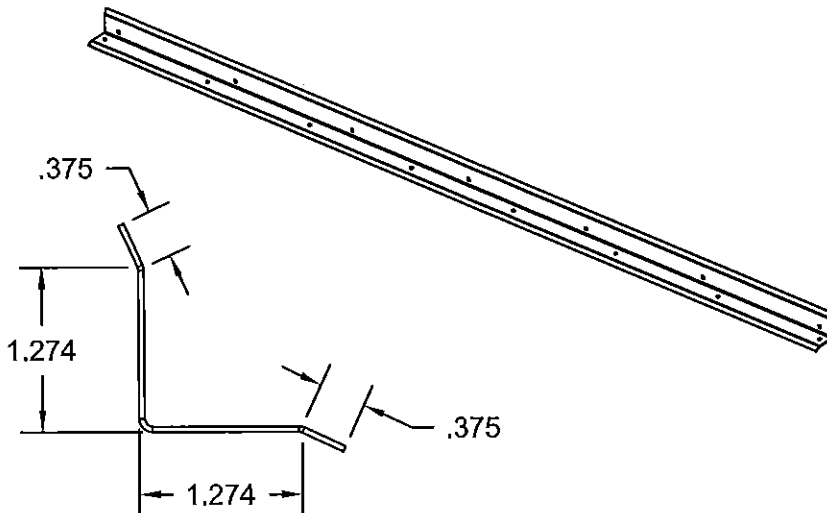
75.UNIT BASE SUPPORT  
CHANNEL / PC BASE L  
ANGLE STEEL .070



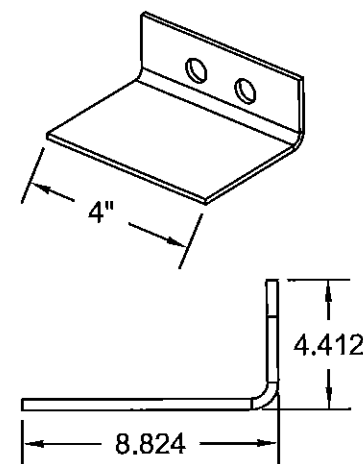
86. PC ROOF L  
ANGLE STEEL .122



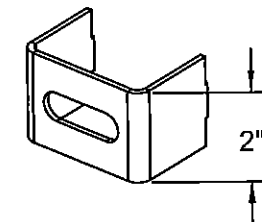
115. PC ROOF KEEL  
ALUMINUM 0.100  
ALUMINUM ALLOY 6063. T6



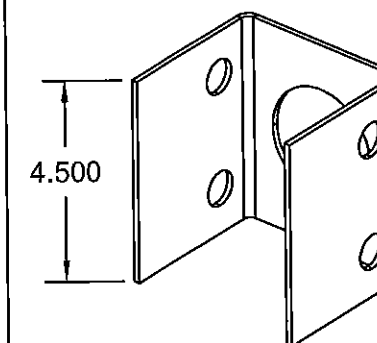
138.CORNER SEAM CAP  
GALV .070



77. PC SHIPPING BRACKET  
GALV .124



84. UNIT WELD BRACKET  
GALV .124



143. PC LIFTING LUG STEEL 0.124

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*[Signature]*  
SCOTT WOLTERS  
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PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING #

AIRS0704

DESC.

TRANE PERFORMANCE CLIMATE CHANGER  
AIR HANDLER - SIZE 120 UNSTACKED UNIT

SHEET

36 OF 41

SECTION

TRANE  
US Inc.

REV. HISTORY

MOCK UPDWG  
SHEET REF:

17, 18, 19 OF 19

BY:

K.YUVARAJA

SCALE:

NTS

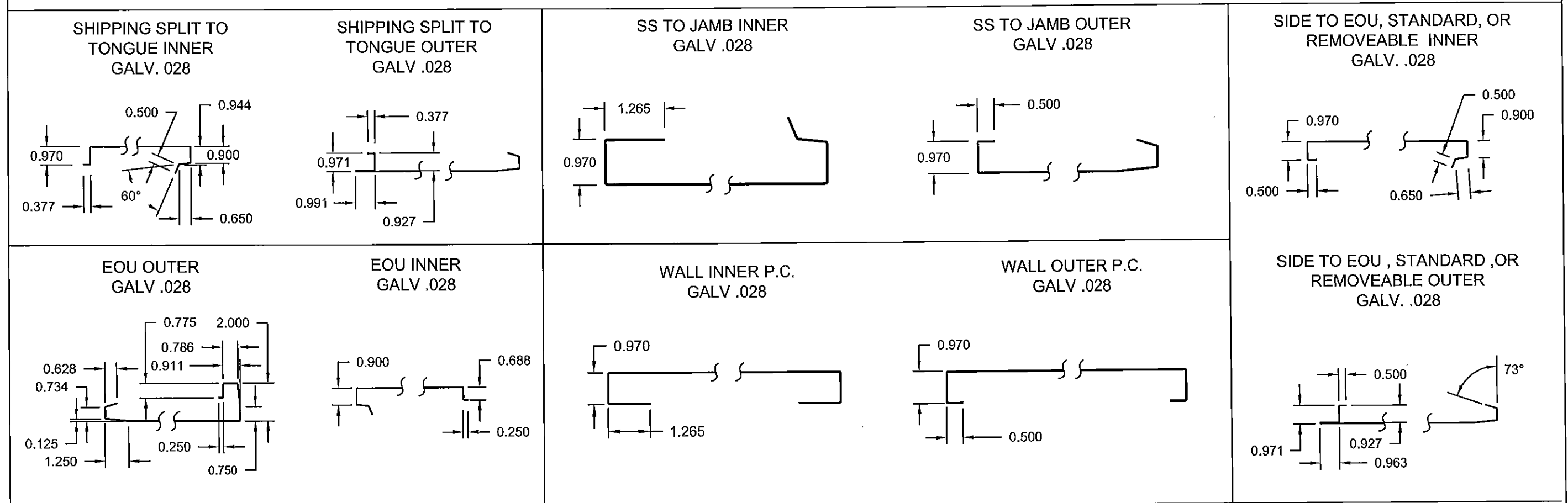
REV.

A

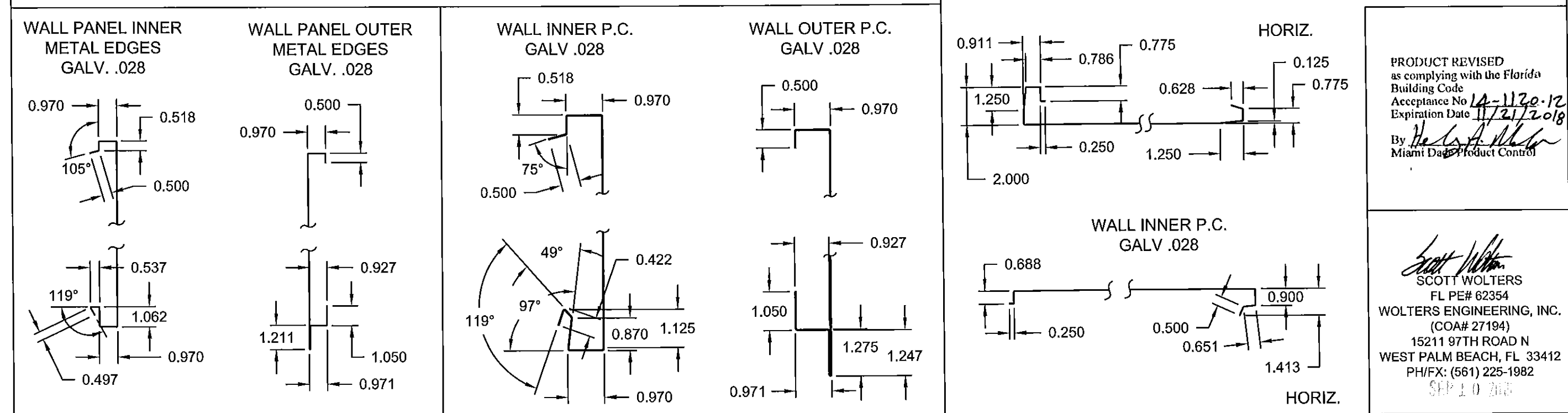
DATE

10-SEP-2013

# TYPICAL WALL PANEL HORIZONTAL CROSS SECTION DETAIL

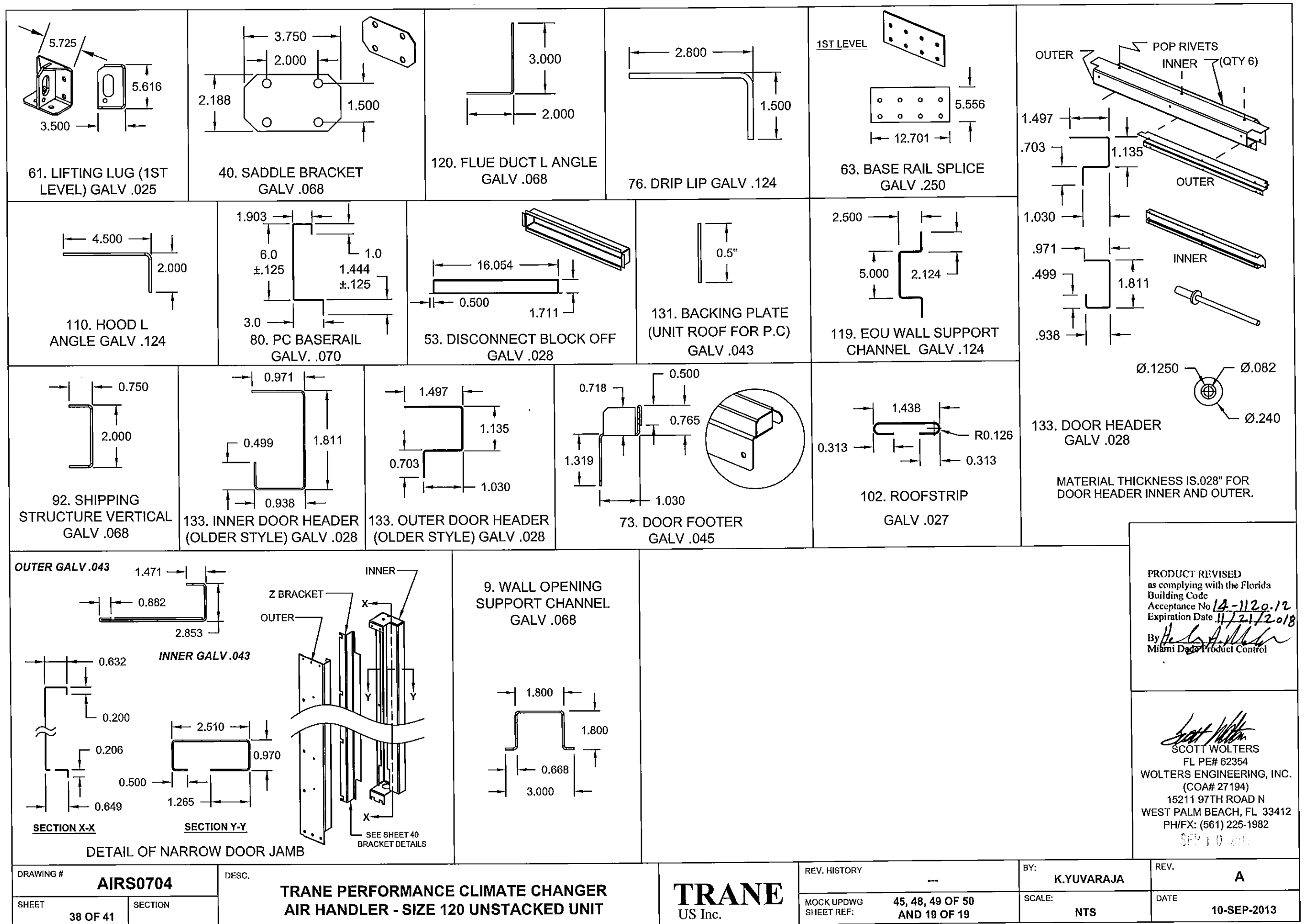


## TYPICAL WALL PANEL VERTICAL CROSS SECTION DETAIL

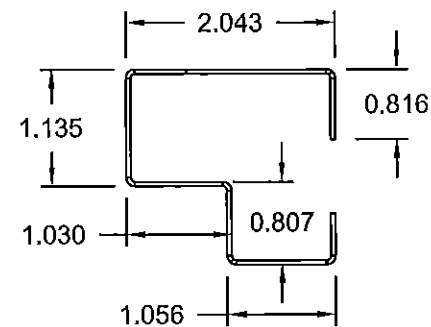


DRAWING #	AIRS0704		DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT		TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	37 OF 41	SECTION					MOCK UP DWG SHEET REF:	46 OF 50 AND 15, 16, 17, 18 OF 19	SCALE:	NTS	DATE	10-SEP-2013

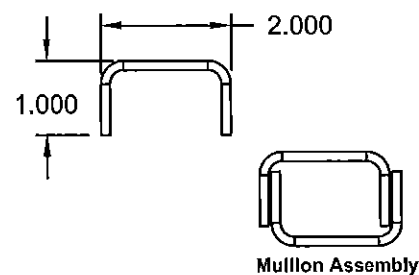




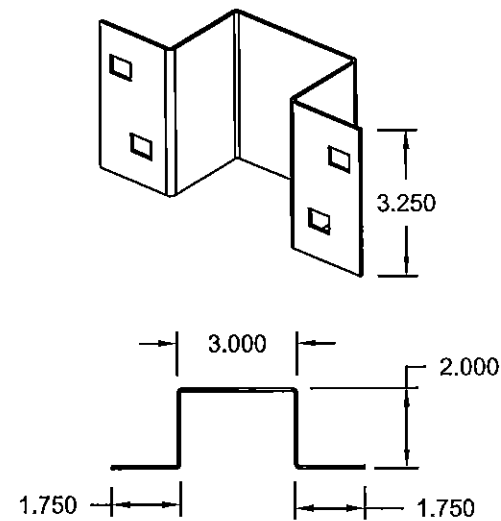




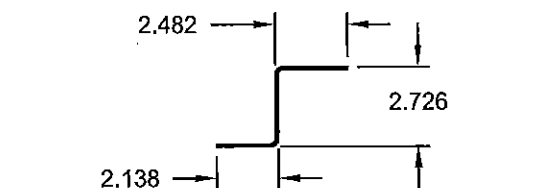
123. DETAIL OF NEW DOOR  
HEADER GALV .043



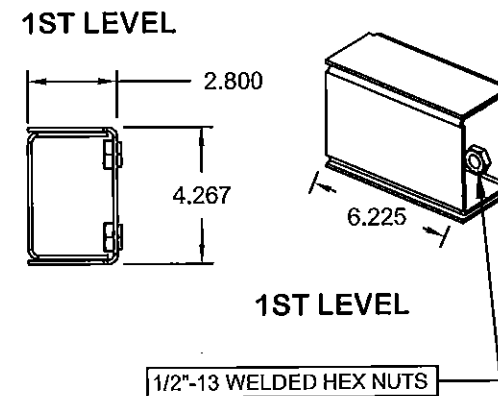
74. PIPE CABINET  
MULLION  
ASSEMBLY  
(2 MULLION NESTED)  
GALV. 0.122



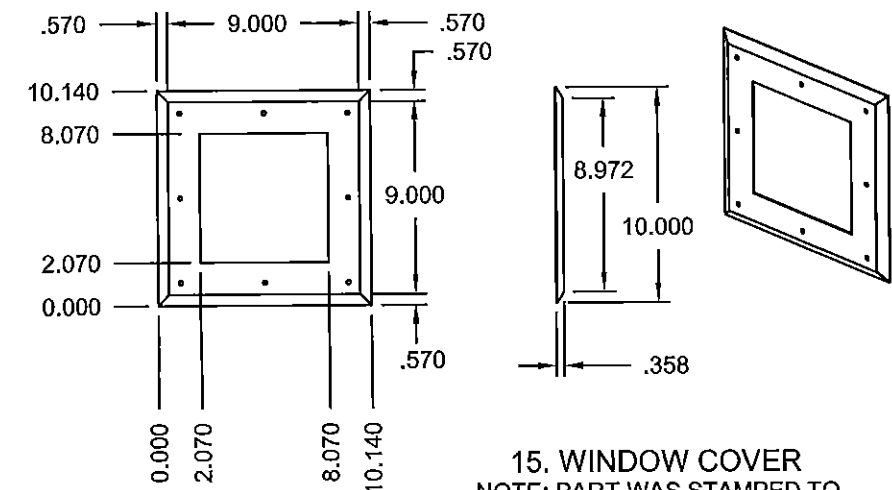
81. CHAIN GUIDE / GUARD  
STEEL 0.067



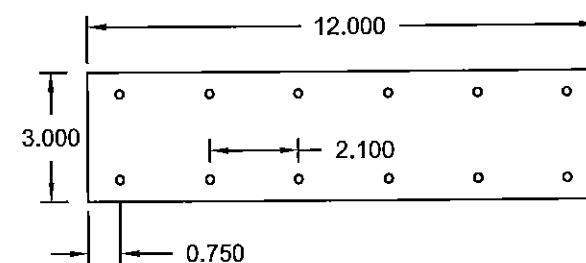
Z BRACKET(NARROW DOOR JAMB)  
GALV .028



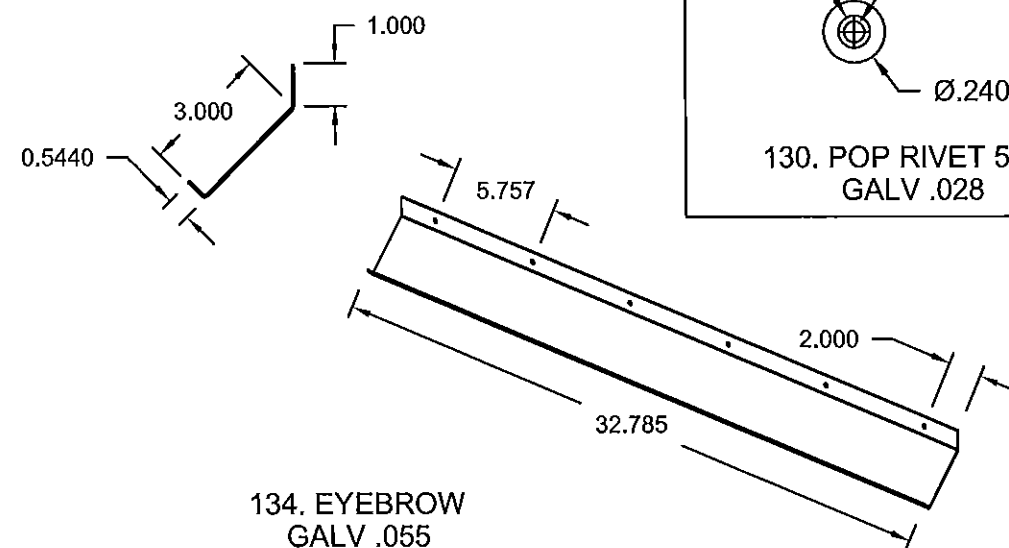
141. CORNER BLOCK  
GALV .124



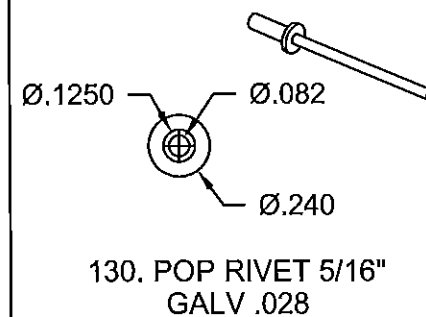
15. WINDOW COVER  
NOTE: PART WAS STAMPED TO  
CREATE THE EDGE OFFSET



121. ROOF SPLICE PLATE  
GALV .044



134. EYEBROW  
GALV .055

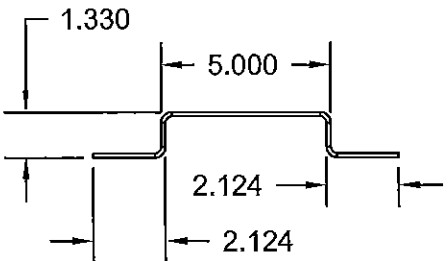
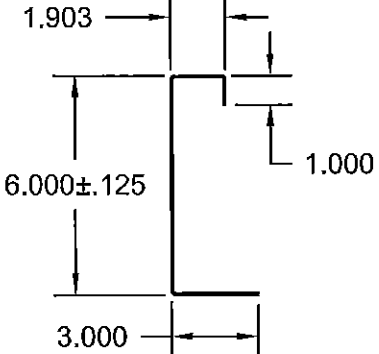
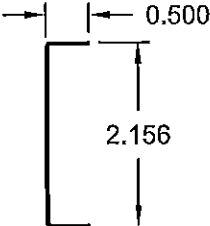
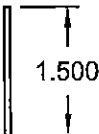
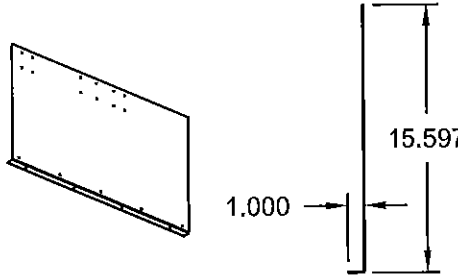
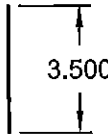
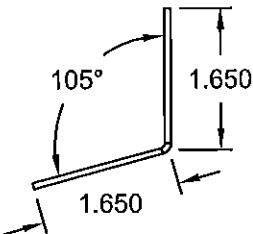
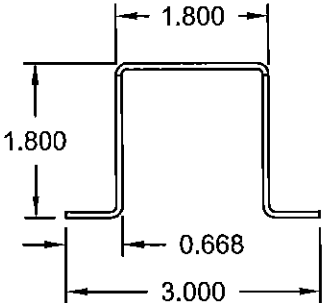
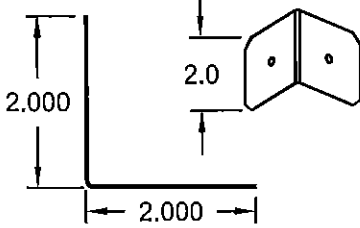
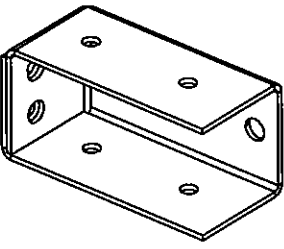
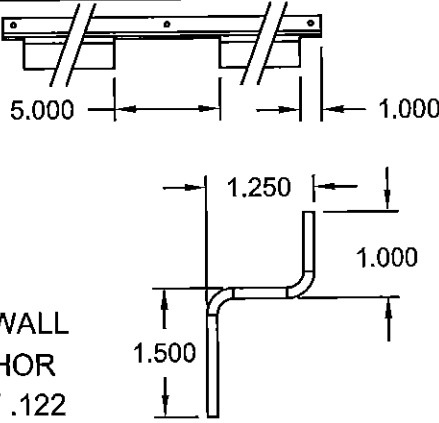
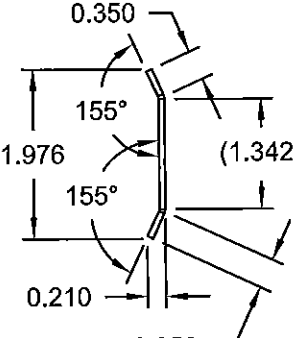
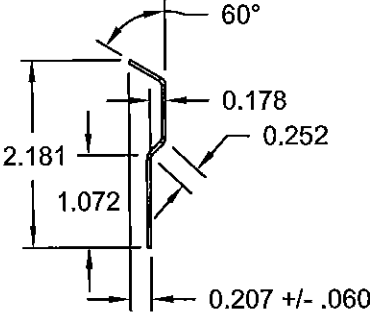
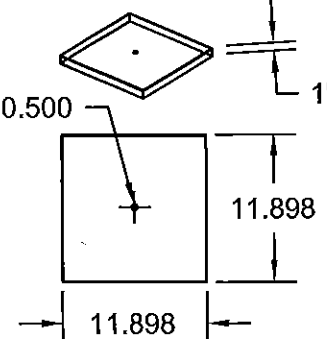
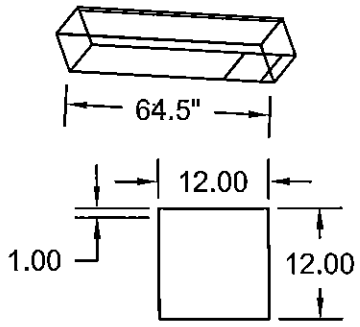
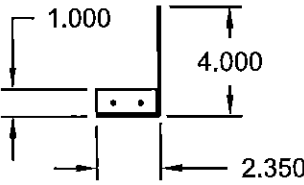
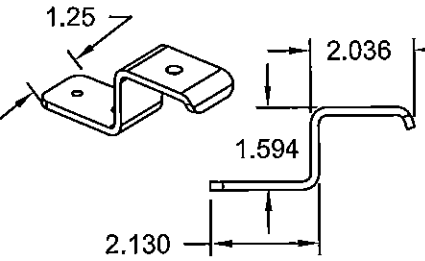
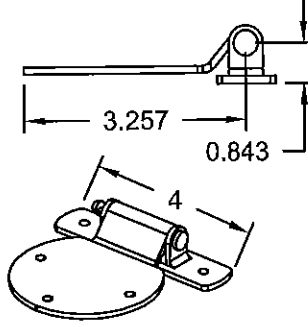
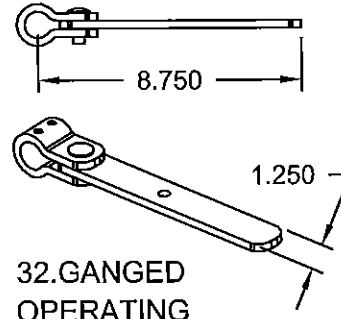
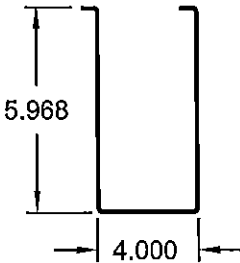
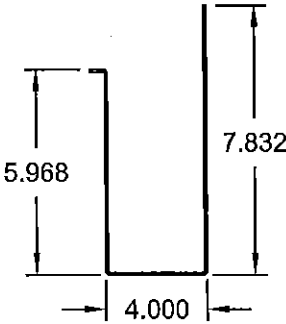
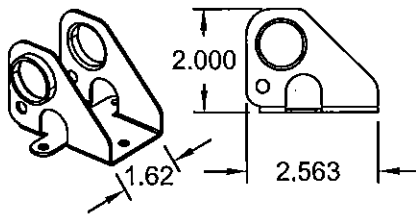
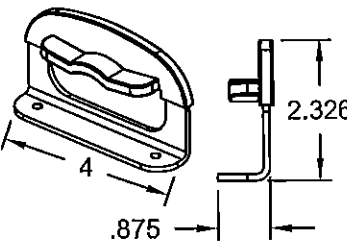
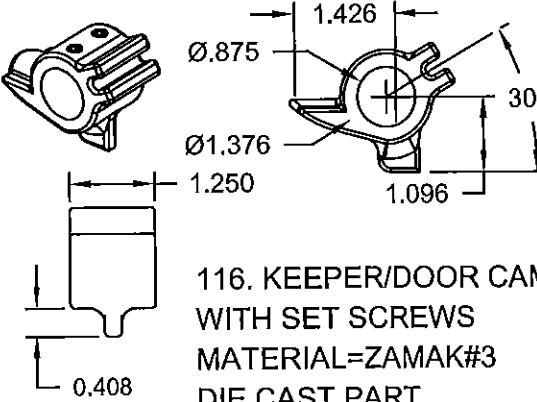
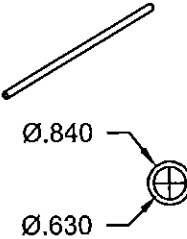


130. POP RIVET 5/16"  
GALV .028

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-1120-12  
Expiration Date 11/21/2018  
By *Heidi A. Miller*  
Miami Dade Product Control

*Scott Wolters*  
SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FX: (561) 225-1982  
SEP 10 2013

DRAWING # <b>AIRS0704</b>	DESC. <b>TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT</b>	<b>TRANE</b> US Inc.	REV. HISTORY ---	BY: <b>K.YUVARAJA</b>	REV. <b>A</b>
SHEET 40 OF 41			MOCK UPDWG SHEET REF: 41, 42, 45 OF 50	SCALE: <b>NTS</b>	DATE <b>10-SEP-2013</b>

 <p>128. DOAF BEAM GALV .124</p>	 <p>85. PC BASERAIL STEEL 0.070</p>	 <p>46. FOAM COVER GALV .027</p>	 <p>112. BACKING PLATE (HOOD) GALV .070</p>	 <p>68. WALL BOTTOM L ANGLE GALV .068 LENGTH:77"(QTY 2) &amp; 27.13"</p>	 <p>71. BACKING PLATE (ROOF) GALV .046</p>	 <p>111. HOOD SUPPORT TOP CHANNEL GALV .068</p>
 <p>9. HAT CHANNEL GALV .070</p>	 <p>47. FOAM COVER CORNER GALV .027</p>	 <p>139. HAT CHANNEL BRACKET 3" X 1.5" X 1.5" STEEL .067</p>	 <p>113. WALL ANCHOR GALV .122</p>	 <p>101. SEAM CAP GALV .068</p>	 <p>5. DECORATIVE COVER GALV .044</p>	
 <p>126. BOTTOM CAP STAINLESS STEEL 0.034</p>	 <p>127. FLUE DUCT STAINLESS STEEL 0.034</p>	 <p>103. OVERHANG GALV .068</p>	 <p>35. PADLOCK BRACKET GALV 0.156 MIN</p>	 <p>10. DOOR HINGE GALV 0.110</p>	 <p>32. GANGED OPERATING HANDLE GALV 0.250</p>	<p>PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 14-1120-12 Expiration Date 11/21/2018 By <i>[Signature]</i> Miami Data Product Control</p>
 <p>44. 1ST LEVEL BASE RAIL GALV .070</p>	 <p>44. 1ST LEVEL BASE RAIL GALV .070</p>	 <p>11. DOOR CAM BRACKET GALV 0.060</p>	 <p>12. STRIKER PLATE GALV 0.110 MIN</p>	 <p>116. KEEPER/DOOR CAM WITH SET SCREWS MATERIAL=ZAMAK#3 DIE CAST PART</p>	 <p>140. DOOR TUBE STEEL</p>	<p><i>[Signature]</i> SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING, INC. (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FX: (561) 225-1982 SEP 10 2013</p>

DRAWING #	AIRS0704	DESC.	TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLER - SIZE 120 UNSTACKED UNIT	TRANE US Inc.	REV. HISTORY	---	BY:	K.YUVARAJA	REV.	A
SHEET	41 OF 41	SECTION			MOCK UPDWG SHEET REF:	49, 50 OF 50	SCALE:	NTS	DATE	10-SEP-2013